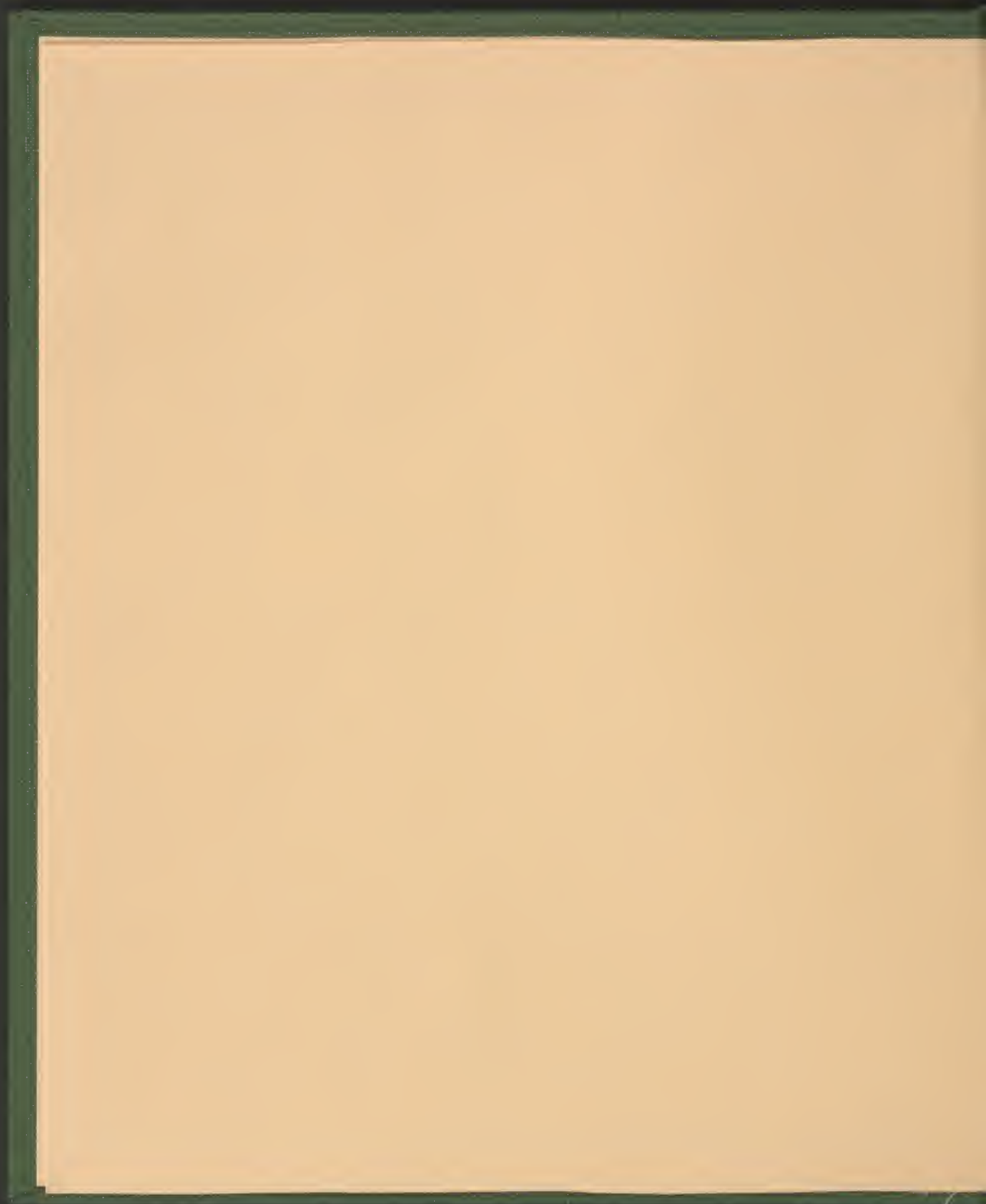


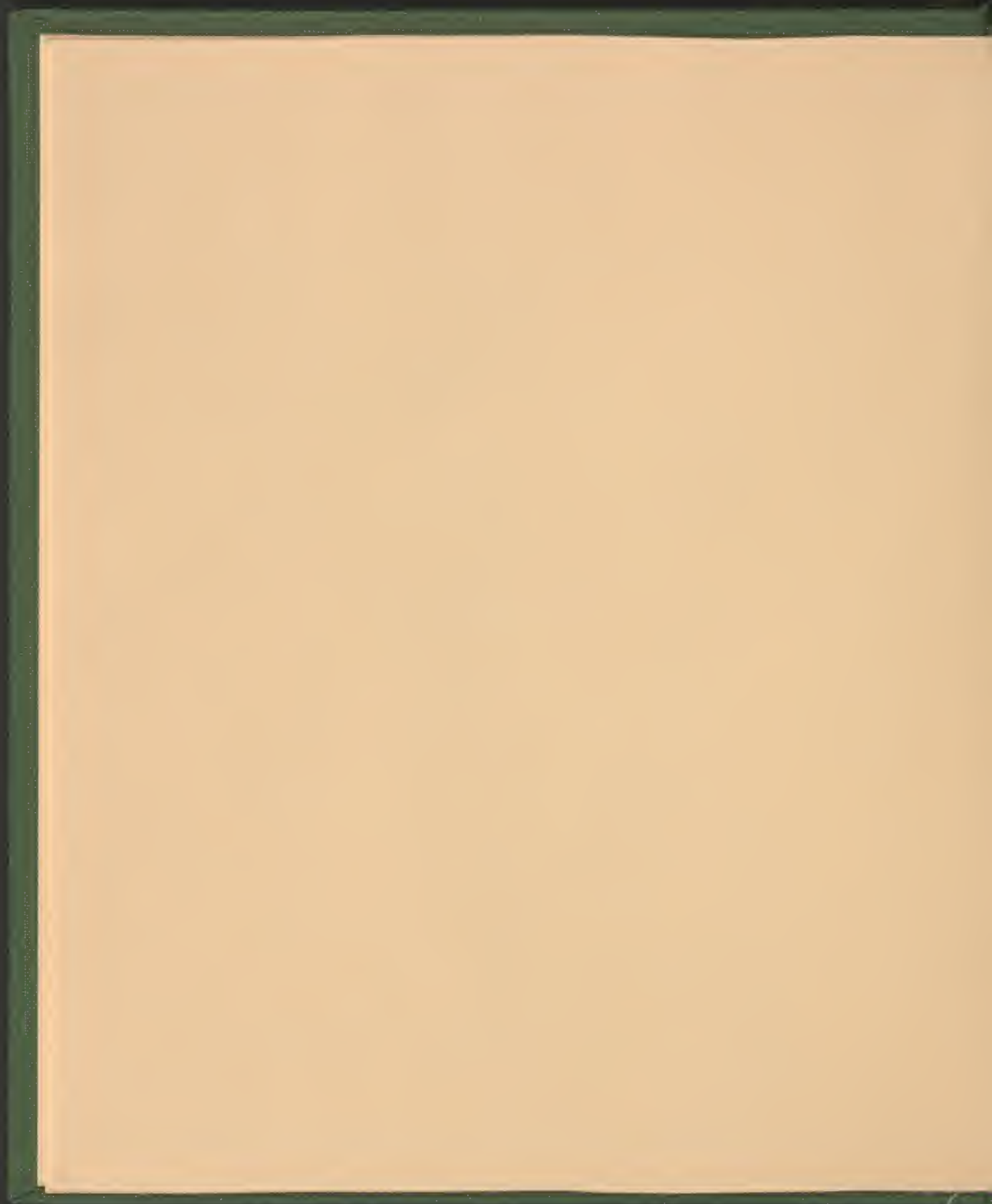
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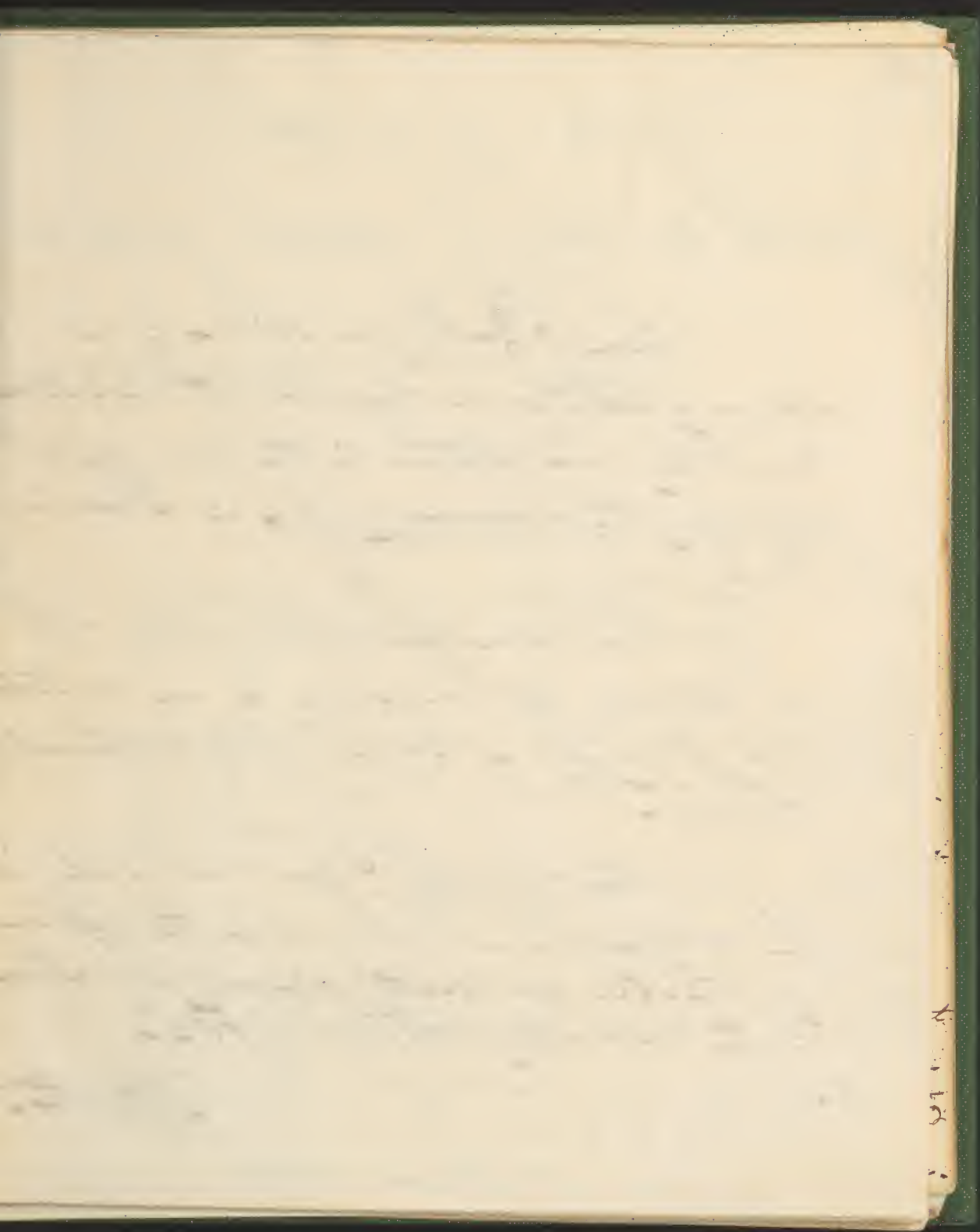
Bethesda, Maryland











These 5 Books of an Outline to a
Course of Lectures on Surgical and Relative
Anatomy, were written in the Evenings and
Nights of the Summer of 1852 at Bloomington
-Ind-.

The important parts omitted, such
as Hernia, the Perineum &c are contain-
-ed in my former Books on Anatomical
Surgery.

This Synopsis I found valuable in
the Lectures which I delivered in the Spring
of 1852-53. immediately following my return
to the University in March of 1852.

J. M. Mott

Introductory Lecture
to
a Course of Lectures on Surgical Anatomy
and the
Operations of Surgery.
=

It is expected in an introductory
discourse that we should look back to the
origins of the Science we are to teach.

To carry our enquiries back into time
and note the great epoch's, but also mark its
progress and effects upon the practice of sound
operative Surgery.

The cultivation of the Anatomy of Rela-
tion will continue in all coming times to place
the Science of Surgery of pure Classic Surgery upon
the most elevated principles of the Healing art.

It is its true and legitimate Land-
mark - the true Polar Star of the Operator.

Maps and Charts will do, but the true

was made to surgical practice. Since which it has spread its happy influence over the whole Surgical world.

Soon, very soon the wave of improvement reached our own shores, brought by the few American Pupils who there visited Europe.

About one hundred and two years ago, (1750), the first Dissection and Dissection of the Body of a Criminal was made by Drs. Bard and Mitchell in Kings College, now Columbia, in this City, for the benefit of Students.

It is not from arrogance but a feeling of gratification that I can state, that forty two years ago, I publicly announced a course of Lectures on Surgical Anatomy, in Columbia College in this City. They were the first I well know that ever were given in this country.

It was considered as an absurdity, and ^{rather} spoken of in derision that Surgery could be so associated with Anatomy as to justify the title of Surgical Anatomy.

There is no necessity said an eminent Professor of Anatomy of learning any thing more than what Descriptive Anatomy will teach.

and unerring source is nature's models - the
dead body.

The first impulse to this beautiful
and enduring Pillar in the Temple of Surgery
was given by that Master spirit in Operation
and Pathological Surgery - Sir Astley Cooper.

His admirable and classical
dissections of the Abdominal Anatomy of
Inguinal and Femoral Hernia, prepared
the way and fully settled the knowledge
of the Abdominal Structures, and the safety
of the steps of Surgical Operations for its
relief, upon the sound and exact principles
of a true Science.

Relation The association of the Anatomy of
structure with Operations and Diseases was
owed to him.

It truly forms one of the noblest
Epochs in our Science.

To confirm this assertion, we will give
some illustrations and proofs from the Writers
and Surgeons who immediately preceded his
time.

Description of that knowledge was.

I bore it as became my age, with commendable com-
-posure, confident that time would bring about
all that was right, determined to wait my
time - This fortunately soon arrived, and it was
indeed a great triumph for me.

A case of Traumatic Neuralgia was
sent to me from the country in the bottom of the
feet of a Young Lady, from a punctured wound.

It was of nearly two years standing, and
she was from the violence of pain in the bottom
of the foot together with violent spasms in the
calf of the leg, totally unable to use it.

The bottom of the foot had been cut and
scarified in various directions, & escharotics had
destroyed extensively the surrounding parts, but
all to no purpose, as the disease still con-
-sisted.

Opium and Tonics had all been tried
in vain.

I proposed to her to cut out an inch or
more of the Posterior Tibial Nerve, to which she
readily consented. I now asked myself the ques-

Compare the knowledge of Potts for example
with the magnificent illustrations of Scott's Gospels
= en

Its stamps with simplicity and beauty be-
tray the justness of his world wide fame
and lasting reputation.

These truths and hard truths in opera-
= tions Surgery, soon spread over Great Brit-
= tain - from London to Edinburgh - to Dublin
to Continental Europe.

By his attention and advising Pro-
= pils, the wave of improvement soon reached
our happy shores - and we hope to believe
its is rapidly extending its blessed influence
into the far distant West.

Onward - Westward is the word - not
the cry of conquest is blared, but the soft
and persuasive voice of Peace and Science.

Our march is then onward, verifying
the Prophecy of Bishop Berkeley -

"Westward the star of Empire takes its way".

How delightful it is for us to retrospect
upon the rise of this important application
of Anatomy to Surgery, and that we lived and
learned at that great fountain of know-

tion as to its relation to the Internal Malleolus and the Tendo Achillis, and the Posterior Tibial Artery. This I could not answer, never having studied its Relations with a view to an Operation upon it.

The Surgical Anatomy of this Nerve, I soon informed myself of by an appeal to the dead body, as has always been my practice in all Operations, when not thoroughly informed.

Wishing to have the Operation sanctioned by the best authority I requested that my old friend & Colleague ^{Dr. Post.} might be called in to consult upon the case. I now proposed that the operation should be performed, in which he fully concurred.

I now asked him how this Nerve lay Relatively to such and such parts, to which he answered that he knew it ran behind the Internal Malleolus, and that was what Surgical Anatomy taught.

I now told him that it ran nearer the Tendo Achillis than the Malleolus - that it was between the Artery and the Tendo Achillis. and that

knowledge, the ~~Worship~~ School of St Thomas
and Guy's Hospital in London - where the
Master (John Sedgwick) and the Pupil (Sir Astley Cooper)
shone as conspicuously brilliant.

The first impulse to this beautiful Science
was given here, by that Master spirit in Operative
and Pathological Surgery - Astley Cooper.

And you cannot be surprised that in looking
back into time, it affords me unspeakable delight
to know that it was there a Pupil at that School,
and there learnt my first lessons, and made my
first dissections of these important parts.

His admirable and splendid Dissections
of the Relations Anatomy of Ligament & Seminal
Hernia, prepared the way, and fully established the
true knowledge of the Surgical Anatomy of this im-
portant subject. He settled upon the principles
of an exact Science the steps to be pursued in
the several Hernia which occur at the Groin.

The application of the Anatomy of Relations
with Surgical Operations, the world owes to
him. And it forms in the Dissection that will

this was what was called Relative or Surgical
Anatomy - and that it was a Science by itself
and could never be learnt in any other way
than by studying it as a distinct branch of
Knowledge -

I performed the Operation, took out
about an inch of the nerve & cured my Patient.

"Les faits sont les meilleurs raisonnements,
says the celebrated Montaigne, "car un fait
est le raisonnement plus la preuve".

foremost circle has been the present generation.

What was the knowledge of this subject possessed before his time.

Give some explanation of it.

Not half a century has yet rolled away since the first wave of Surgical impulse was seen in London, and wave has followed wave, until the whole Surgical world feels its mighty and healing influence.

It must not be forgotten, that the distinguished Spanish Surgeon Antonio de Gimbernat bears a distinguished part in the Honor of this great impulse. For while Astley Cooper was labouring for the knowledge of the Surgical Anatomy of the Inguinal Ring and the abdominal Canal, the fame of Gimbernat had spread abroad and he was rendering the same service to Operative Surgery in his accurate and beautiful delineations of the Perineal Ring.

So far therefore they laboured together in the great subject of the Surgical Anatomy of the Groin, and their names will be hailed in all



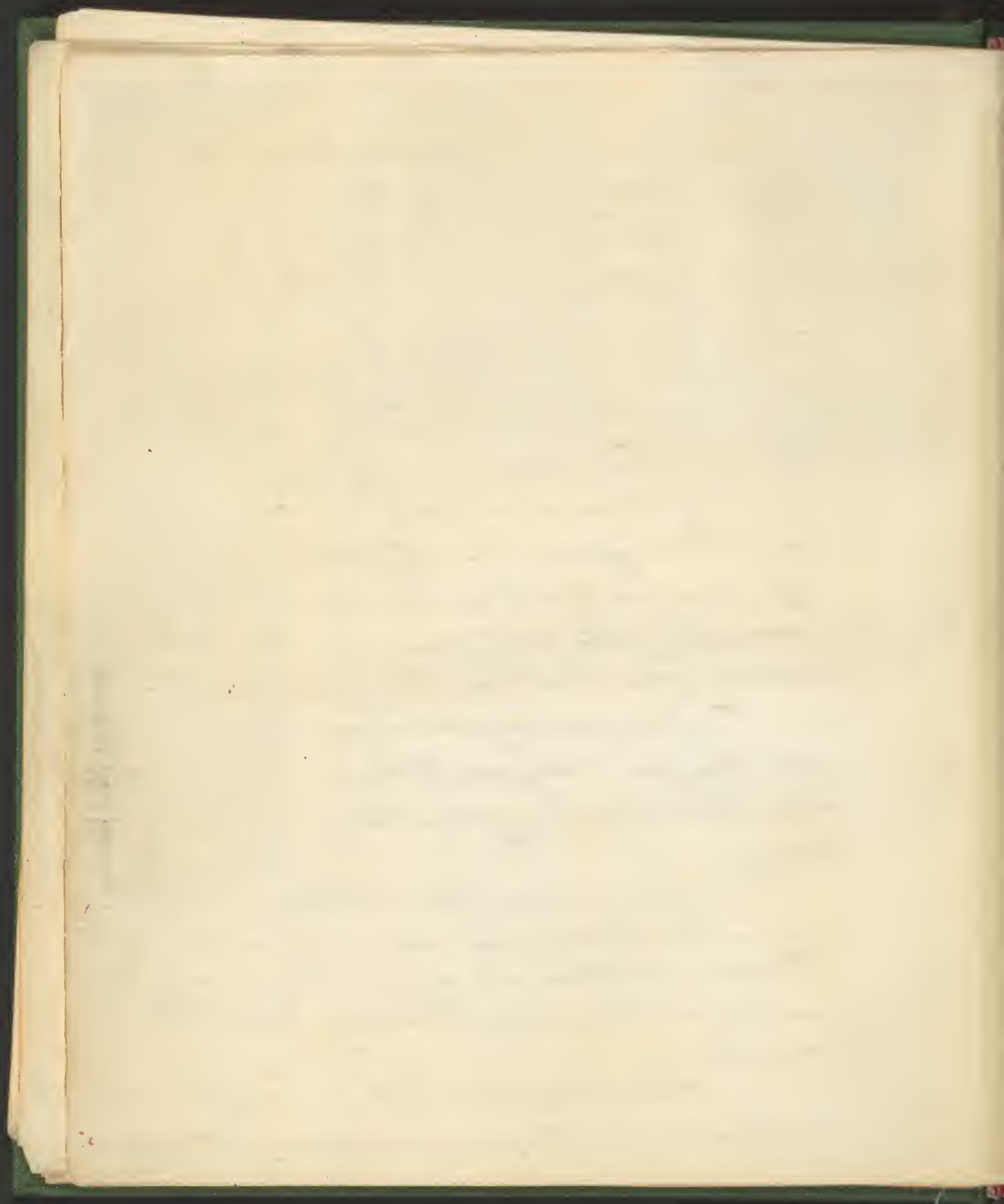
coming time as the greatest Benefactors to this
department of Operative Medicine.

The delicate and important Operation
which must ever be connected with Hernia, the
sudden and imminent peril to which life is sub-
jected on many occasions, by night and by day
will constantly urge us on, to become Masters of
the subject. There is no lagging behind - no
Leafy way Houses - no Book nor Cadaver to
consult or appeal to - the patient is before you
and you must act as he wills do, and if you
are ignorant of the parts you ought to cut, most
probably you will kill him if you do cut.

Can you imagine a ^{sole} awful & responsible
situation for a Surgeon to be in - ignorance may
kill - Knowledge may save the life of a human
being.

A Husband or a Wife, a Father or a Mother
may be the object of our care, and amidst all the
intimates, questions and sympathizing solitudes,
you are looked up to as their only Hope - their only
comfort.

Other callings and Professions may be even
so important, but they fall far short of the respon-



possibilities of ours. The Surgeon and the Divine may delay an opinion, and consult their authorities but the Surgeon must act with promptness and decision. Our knowledge must be exact and available on all occasions, it must not only be in our heads but must circulate to the ends of our fingers.

The importance of this knowledge to Surgery was soon sought to Scotland and attracted the attention of that excellent Anatomist and distinguished Surgeon of Glasgow, Allan Burns. With his keen eye and Master's hand the same light was shed upon the Neck and Head and gave birth to his invaluable work on the Surgical Anatomy of the Head and Neck.

His work is a masterpiece of study, the application of the same principles of Relative Anatomy to the various Surgical Operations which are called for upon these important regions that Cooper and Gimbernat had so happily and successfully carried out for Inguinal and Groin Hernia.

This Volume is an enduring Monument to his fame, and ought to be studied and re-studied by every Student and Practitioner of Surgery.



It sheds a light and imparts a knowledge of the
Surgical Relations of the one of the most impor-
-tant Regions of the body. a light that should
ever shine and illumine the path of the Operator
in every step of his Knife.

But for a premature death this eminent
and excellent Anatomist and Surgeon, intended
to have extended his labours and researches,
into all the important regions of the body -
Which if accomplished in the same masterly
manner, would have been indeed a rich
Legacy to Surgery and a blessing to the Hu-
-man race.

But Alas! his work was finished. His
labours were ended.

Next in the train of Benefactors to Sur-
-gery, comes Velpeau - the wonderful Vel-
-peau - for so truly may he be styled. the Black-
-smiths Boy - Determined to study Surgery, he
travell'd on foot from a remote part of France
to Paris. On his way obliged to stop and work
in a Shop to earn a few sous, to enable him
to reach the end of his journey. There in the
midst of a mighty Capital, surrounded by a tumult.

tuous rivalry, he studied, dissected and struggled in the greatest penury and want. But his end was accomplished. He was studying Anatomy. He was in Paris.

The rough edge of poverty did not daunt his ambitions, perseverance was his motto, and onward was his course. He encountered every obstacle, and overcame every difficulty.

Like his predecessor and cotemporary, who also struggled with poverty, Guy Pictet, the Giant in Surgery, he rose by degrees to consideration, and some distinction. Such examples as Guy Pictet and Velpeau are profitable to us all, they ought to excite our admiration and stimulate our ambitions.

Look now at the position of Velpeau. At the head of his Profession in one of the greatest Capitals of Europe. The noblest Profession that can engage the attention of man. All by his own exerting efforts. What a proud triumph. What an example to imitate.

Among the various efforts of his most intellectual, he has given us an extensive work on

what he calls the Anatomy of Regions, in three
large Volumes, called "Anatomia Chirurgica".
It embodies a vast amount of matter on this
subject, and an extent of research which over-
passes all the labours of his predecessors. It is
more extended and ample than can be at-
tained by any Pupil. It must, and ever will
be a most valuable book of reference to the
Student and Surgical Practitioner.

Its only defect is in its extraordinary
minuteness, and in the creation of too many
regions, loading and embarrassing the subject
too much, whereby he complicates, instead of
clearing, the sciences. Therefore instead
of cheering the Student it overloads and oppres-
ses him. It is therefore more a Book for a
Practitioner than a Student.

It is however a masterly performance
and ought to be in the Hands of every Student
and Practitioner as a Book of constant refer-
ence.

Next Blandin appears, another Botani-
cist of Valparaiso, in a large Volume, entitled
"Anatomia Topographica". His Book displays

much less learning and labor than Velpeau,
but he is thoroughly acquainted with the subject,
and from the concise and luminous arrangement,
will be found much more useful & practical.
It is a work which you study with pleasure and
infinite advantage.

The name of Blandin is familiar to all
who have visited the Surgical School of Paris,
and his fame alone is sufficient to stamp his
Volumen with an enduring reputation.

He was the favorite Pupil of Maignan,
and the Successor by Boncompagni, at an early age
to the celebrated Richerand, as Professor of Sur-
gery in the School of Medicine of Paris. This
was a distinguished honor. He died at an ear-
ly age.

From these General works on Surgical
Anatomy, we will for a moment turn our atten-
tion to the labours of other Men who have enriched this
branch of Science by their Specialities.

In this list of worthies stands another dis-
tinguished French Surgeon, Amussat.

Taking a particular Region of the body, he
has thrown great light on the Surgical Anatomy
of the Male Urethra. Our knowledge on this subject

was poor and insufficient when he commenced his investigations, and he has not yet exhausted the subjects -

To Morton and Marshall of England we are greatly indebted for a thorough investigation, and beautiful delineations of the Surgical Anatomy of the Genito-Urinary organs. Their admirable work will always be consulted with profit and advantage by the Student and Practitioner of Surgery in every Country who takes an interest in a correct knowledge of this important subject.

Another contribution to the Science of Relations Anatomy we have in the work of Professor Harrison ^{of Dublin} on the Arteries.

Though the Experiments of Majendie may have led to a speculative Science in many respects purely so, still they have opened a new way for the advancement of useful Knowledge.

Surgery has been led by his labours to make experiments for the benefit of sound Surgical Science, and to him we owe the investigations of Jones and Anquetin on the Arteries - those of Trauvens and even those of Reybaud and Robert on Wounds of the Intestines and of Hernia, we have ^{all} felt the

value, and experienced the benefits of these enquiries and investigations, ^{his} enlarging our views of correct practice, and improving the Science of Surgical Anatomy.

Other names may yet be mentioned among the most illustrious and distinguished, who have sanctioned experiments, such as Dupuytren, Scarpa, Keelard and Sir A Cooper, all of whom have extended the boundaries of our knowledge on this subject.

Another, and the last Author on our favourite subject which we shall name is Malgaigne of Paris, a distinguished Surgeon of that Capital. He has furnished us with the best work on ^{the} Surgical Anatomy of the ^{whole} body. It is a clear and accurate exposition of every part and organ of the body, its relations & diseases. And beside ^{the} lucid style of the Author, it is not so voluminous as Velpeau's.

It is in two large Volumes, entitled "Anatomie Chirurgicale".

You see therefore, that this is a Science of yesterday, ^{and} ^{that} a gratification in knowing, ^{and} I live at the Era, when the first application of this important Science of Anatomical Relations

Relation anatomy of the integuments.

of what they are composed.

Cuticle.

Nete Muscularis

Cutis.

Demonstrate each.

Vary in different parts of the body.

Demonstrate this difference.

Scalp.

Arilla

Genia.

Hands

Feet.

A Surgeon should be aware of this difference
It influences our Operations.

The Scalp is composed of several parts.

Peculiarity of Scalp.

Composed of Scalp so called.

Thin. Adipose tissue.

Filamentous.

Tendinous expansion of the occipite.

^a Erysipelas can believe more frequently follows a puncture
into the tissue - also a lacerated wound.

frontalis muscle -

Lastly we have the perosteum of the skull - called *periosteum*, - because it is the investing membrane of the *cranium*.

These make together the Scalp -
a very compound covering -

Interesting to Surgeons -

Not only as a piece of Relative Anatomy.

But to enable us to understand the injuries to which it is subject -

and to operate safely upon it.

In wounds which penetrate into the arborescent tissue, we have one set of symptoms -

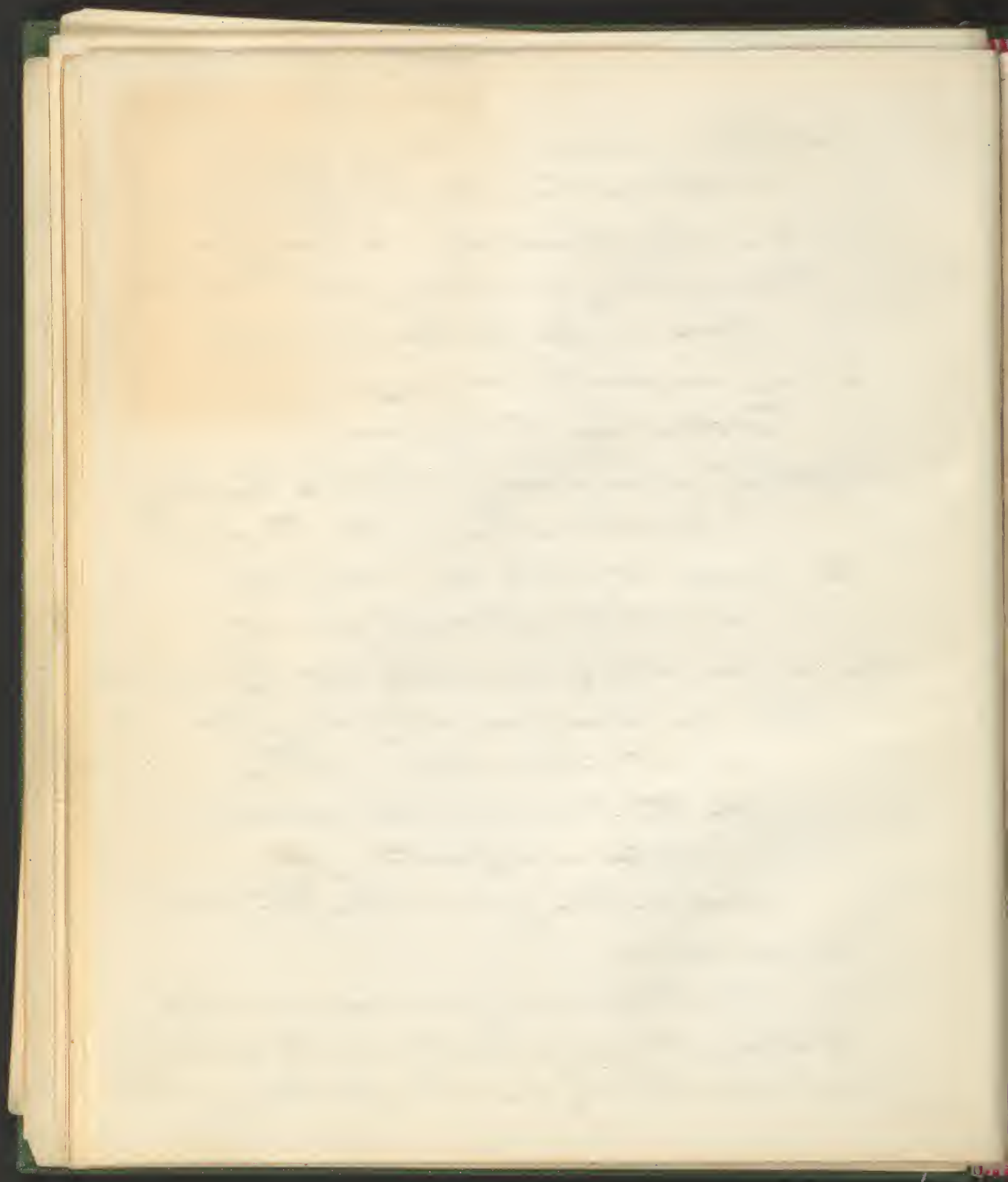
In the filamentous another.

In the tendinous Aponeurosis quite a different.

And another again where the *periosteum* is concerned.

To illustrate, or give an example.

It takes a Surgical Anatomist to explain and understand why an extravasation of blood



to form tumors must always take place
in the filamentous tissue.

All the trunks of the Arteries of the
Scalp are found in this tissue.

If for one moment it were to be under
the Aponeurosis, it would ungulate and
very painful.

This is firm & inelastic.

The tumors from this circumstance would be
firm and ungulate.

They would be long also in forming.
There would be a slight blow, and even pulling
the hair to occasion them.

They are then sudden to form, and quickly to
disappear.

These tumors require to be punctured.
Absorption is generally rapid.

Discutients may be employed.

as for instance Camphorated Spirit.

Muriate of Ammonia & Thiers's.
Circumstances under which they may be punctured.



Inflammatory tumors very tender & painful -
denotes inflammation & effusions under
the pericranium.

From the tenderness & character of this
structure it is invariably & necessarily
painful.

Requires a free incision and an
efficient poultice.

This soon relieves all the local
and general symptoms.

It is only a knowledge of the rela-
-tions Anatomy, that leads to a correct
practice.

The puffy tumor of the scalp is
of quite a different character.

Denotes effusions under the pericranium
- and, & that there is an inflammation of the
Dura Mater & separation of it from the
pericranium within.

Of course and should rather, it justifies
a free incision to the bone.

The Scarsin under these circumstances
will be of an opaque white colour and in-
cluded in dead.

Generally speaking in these cases
is required.

Under what circumstances it may
be required.

All incisions from the removal of
tumors on the ovary ought to be made ob-
liquely so as to leave the filamentous tissue
the largest, to enable the vessels readily to be
tied.

Inattention to this has occasioned serious
and even fatal hemorrhages.

Young operators ought to be aware of this
as they may thereby escape danger.

Once in which the bleeding was fatal, the
obed on the table.

A knowledge of the Relative Anatomy
of the Scarf will lead to the propriety of this kind
of incision.

The first of these is the
 fact that the system of
 the world is not a
 simple one. It is a
 complex one. It is a
 system of many parts
 which are all inter-
 connected. The system
 is not a simple one.
 It is a complex one.
 It is a system of many
 parts which are all
 inter-connected. The
 system is not a simple
 one. It is a complex
 one. It is a system of
 many parts which are
 all inter-connected.

In the Excision of Hair, the importance of
this kind of incision is particularly ~~clear~~.

It is an interesting fact to mention
that I have never known a single in-
stance of sloughing of the scalp, however
much torn or lacerated.

Not even in Erysipelatous affections
where the filamentous tissue is destroyed
and I even saw the integuments slough.

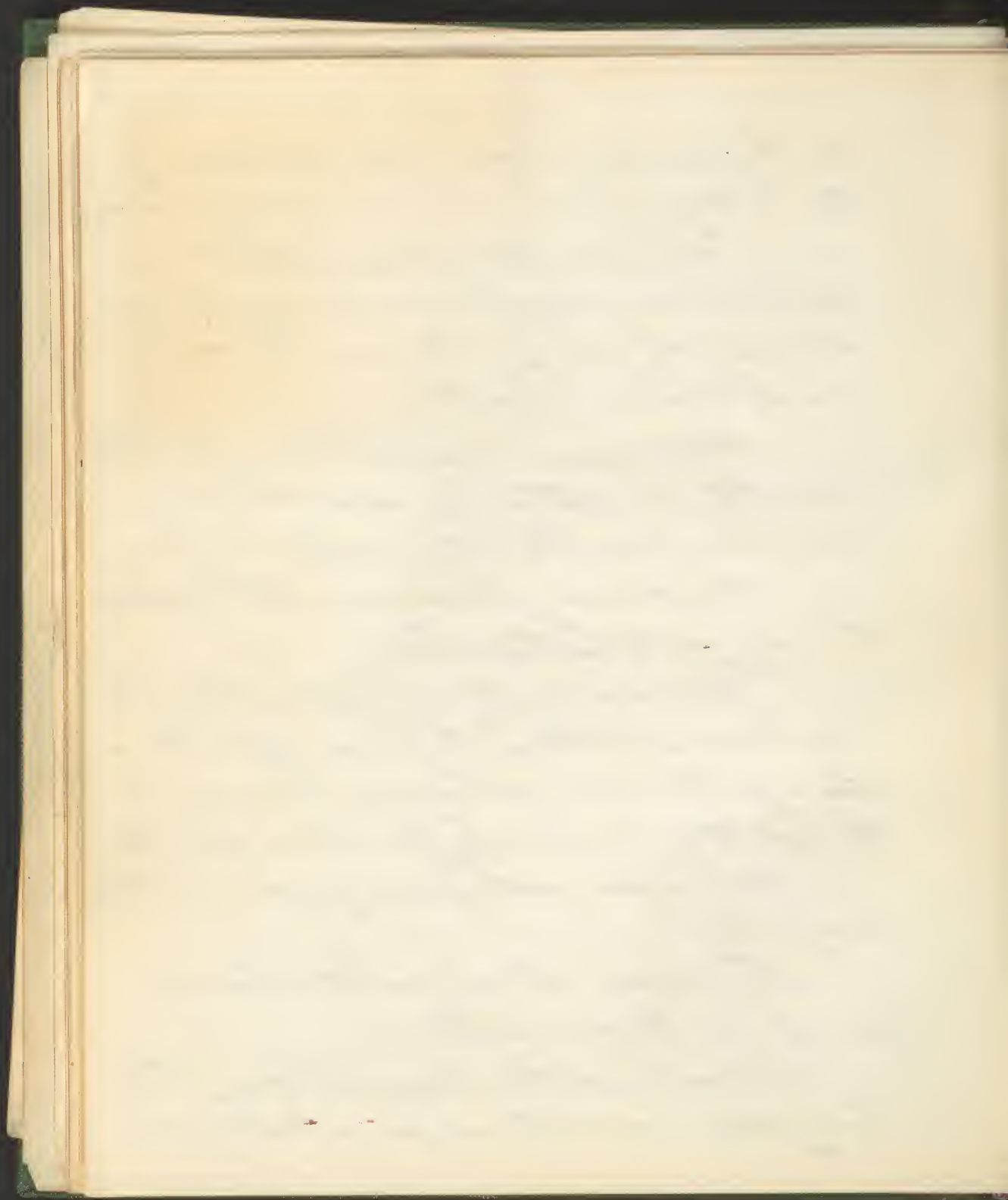
The power of vitality must therefore
be very great in the scalp.

Its vascularity is great indeed and
well known to those who have dissected a
well injected scalp, or Surgeons who are in
the habit of performing operations upon it.

It possesses great powers of reproduction
consequently.

This is seen not only in the adhesion
process, but the exfoliation.

I have removed a large portion of the
hair scalp in one instance for a Melanosis



and the wound granulated & healed kindly
to the patient's recovery. See Specimen
in the Museum.

No Plastic Operation from my ob-
-servation is ever required upon the scalp,
not even the glissade.

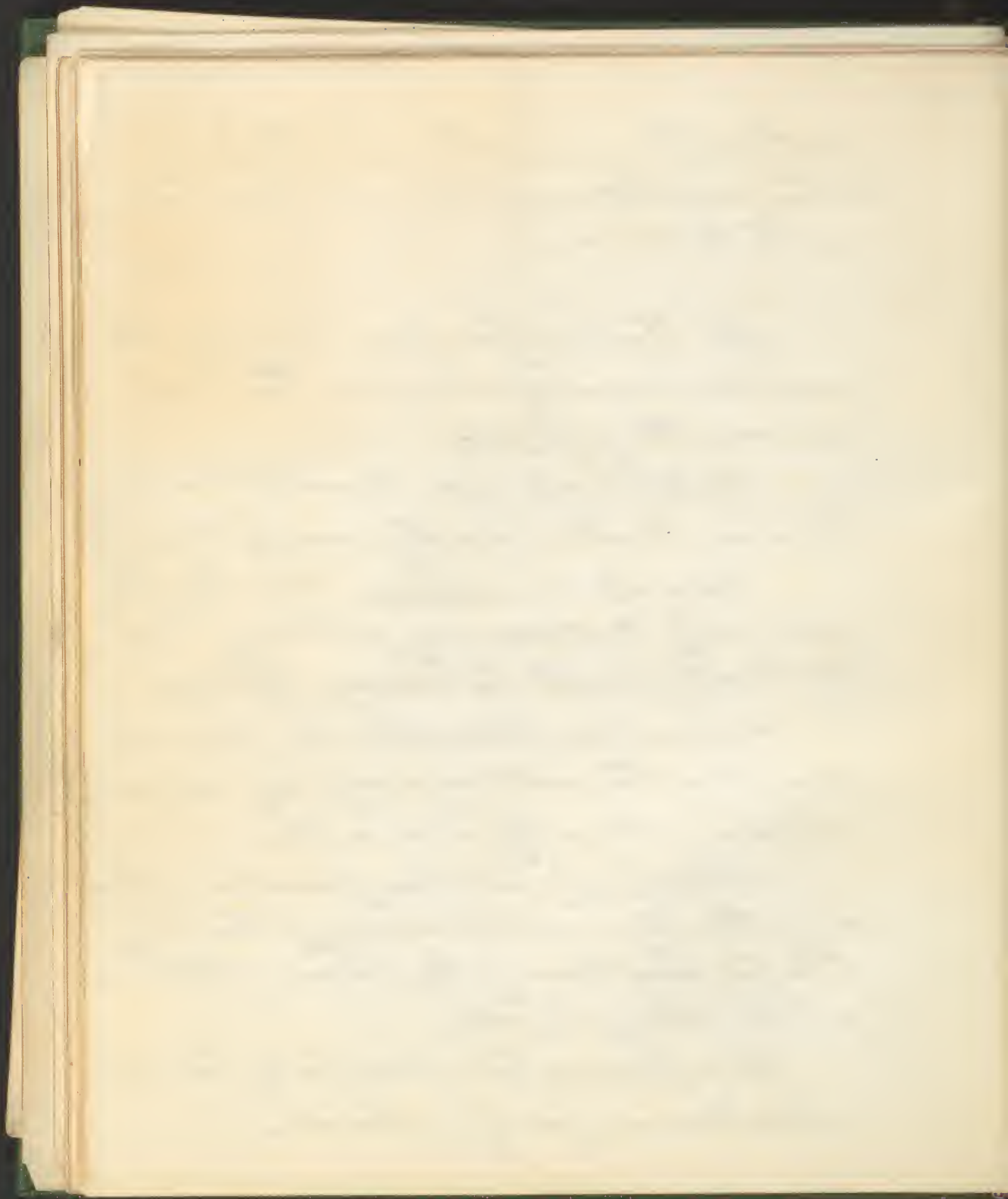
But if called for it would be &
I have no doubt eminently successful.

Under all circumstances it is the Sur-
-geon's duty to save every portion of scalp
let its attachment be ever so trifling.

I have been often astonished at results
even under the most discouraging circum-
-stances. Always try to save it.

Anaplasty has been practiced upon
every other integumental covering of the body,
with the exception of the palms of the hands
and the soles of the feet.

As a Generic term, Anaplasty has an
most extensive family of species.



The term Anaplasty is comparatively a modern origin.

But a few years since no one will find an such word in the books.

Soon after the introduction of this great improvement in Surgery by the immortal Mr Hunter, we soon find the term Adenoplasty used by Surgeons.

Mr. Mead did as much to settle the principles and establish the practice of union by the first intention, or by the adhesive process, as this eminent English Surgeon.

His work on the fundamental principles of inflammation is original and ingenious and true. and is a lasting monument to his fame, more enduring than Marble or Brass.

It is delightful to contemplate the importance of the practice of adhesion in the walks of a Surgical Practitioner.

My dear Mother
I received your letter of the 10th inst. and was
glad to hear from you. I am well and hope
these few lines will find you the same. I
am not at home much at present but will
write again soon. I am very much interested
in the progress of the cause and hope to
be able to do something for it in the future.
I am, dear Mother, ever your affectionate son,
John Smith

It commemorates the greatest. It is not only
in Operation, but in Practical Surgery.

The magnificent discovery of the
Ligature by Ambrose Pare, does not even
eclipse the Hunterian era.

Hunter was an application of sound
principles to the solution of a fact.

Theory and practice with him went
hand and hand.

He arrived at great conclusions by
the most laborious experiments.

His results have benefited all races
of Men where Surgery is cultivated and will
continue to do so in all coming times.

Hunter views & opinions enable us
to understand in what way a ligature obli-
terates an Artery.

That it is by the adhesive process, and
that serous tissues or membranes are indis-
pensable surfaces for the plastic action.

He has taught us to know that upon



For unto you is born this
day in the city of David a
Saviour, which is Christ
the Lord.



For unto you is born this
day in the city of David a
Saviour, which is Christ
the Lord.



For unto you is born this
day in the city of David a
Saviour, which is Christ
the Lord.



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the Lord.



For unto you is born this
day in the city of David a
Saviour, which is Christ
the Lord.

such tissues only was we to expect the adhe-
=sive inflammation to take place.

The Mucous Surfaces being prone to a totally different result when inflamed.

Stupid indeed must ~~that~~ ^{who} ~~be~~ ^{is} the nurse
should attempt to unite by the plastic process
two mucous surfaces.

Serous tissues or membranes are the parts upon which we are to look for the beautiful process of adhesion inflammation.

Upon Mucous Surfaces for the Sep-
-parative

Pain establishes the fact, that a lig-
-ature upon an Artery ~~is~~ would arrest Hæ-
-orrhages, a most important step in Operative
Surgery - a monstrous improvement upon the
actual Banting of his predecessors and even his
Contemporaries.

Decidedly one of the greatest Epochs, (if not
the greatest) in the whole range of the History
of Surgery -



Pleura creata

Pleura despoiled

As Surgeons may say this of these two great
Benefactors to Surgery, as Naturalists
have to the distinguished Linnæus.

Various experiments were made
by Hunter to extend the adhesive power.

He tried to convert the Pleura into
the skin, by accomplishing an adhesion of
the Testes of the latter to the Pleura and
of the Pleura.

But in this amazing experiment
he failed.

He did make the human tooth take
firm hold & grow in the bone of the back.

That a part of the human body, as a
finger or toe, when completely detached, and
severed, can ever become united again to the
parent stock is what I never saw, but there
abundant evidence to establish the fact.

Medical Men of character have stated

What is a Gentleman?

What is a gentleman? Is it a thing
Decked with a scarf pin, a chain and a ring;
Dressed in a suit of immaculate style,
Sporting an eyeglass, a lisp and a smile,
Talking of races, of concerts, and balls,
Evening assemblies and afternoon calls,
Sunning himself at "at homes" and bazaars?
Whistling mazurkas and smoking cigars?

What is a gentleman? Say, is it one
Boasting of conquests and deeds he has done?
One who unblushingly glories to speak
Things which should call up a flush to his cheek?
One who, while railing at actions unjust,
Robs some young heart of its pureness and trust,
Scorns to steal money, or jewels, or wealth,
Thinks it no wrong to take honor by stealth?

What is a gentleman? Is it not one
Knowing instinctively what he should shun;
Speaking no word that could injure or pain;
Spreading no scandal and deepening stain?
One who knows how to put each at his ease,
Striving successfully always to please?
One who can tell by a glance at your cheek
When to be silent and when he should speak?

What is a gentleman? Is it not one
Honestly eating the bread he has won,
Walking in uprightness fearing his God,
Leaving no stain on the path he has trod?
Caring not whether his coat may be old;
Prizing sincerity far above gold,
Reckless not whether his hand may be hard,
Stretching it boldly to grasp its reward?
What is a gentleman? Say, is it birth
Makes a man noble, or adds to his worth?
Is there a family tree to be had
Shady enough to conceal what is bad?
Seek out the man who has God as his guide,
Nothing to tremble at, nothing to hide,
Be he a noble or the poorest in trade,
He is the gentleman nature has made.

—Selected.

to such instances, as fingers & toes, and
our Journals often contain cases of a like
nature.

The wonderful story of Gavagai
can scarcely be believed as the nose of
his patient was bitten off & was after-
wards put on & it grew fast.

The nearest I ever knew any
member of the body to be severed, and yet
grow on was the Penis.

My Case in Charleston State.

Entire transplantation as applied to the
human body I have no confidence in.

In all the Anaplastics Operations we
have ever seen, performed by others and done
by ourselves, the portion or patch of integ-
riment must be left attached to the
Parent stock by an Artery, or it will
have no chance of being preserved.

The most beautiful noses made by
the Anaplastic Operations were by Baron



Graeffe and Prof: Deffenbach of Berlin.

The former made them from the Arm
and the latter from the forehead.

Those by Deffenbach were by far
the best, and he indeed may be considered to
have been the Prince of Nose Makers.

The Surgeons of our Country have been
very enterprising in all their important op-
erations, and have equally succeeded with
our European Brethren.

We have applied the principle of An-
-oplasty extensively ourselves.

To the Nose.

Eyes.

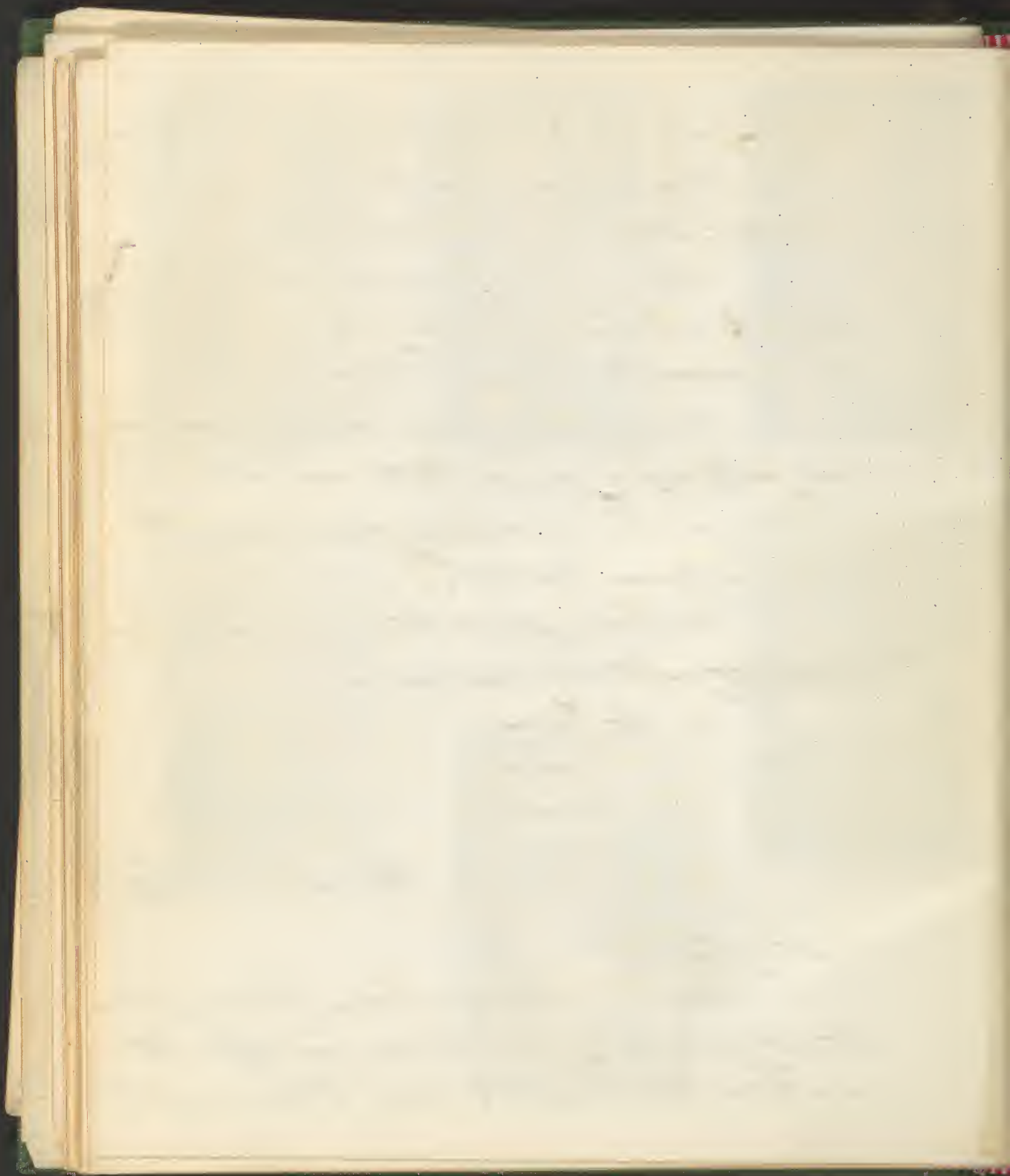
Cheeks

Lips.

Reinforced, and various other

parts of the body.

Some observations we have had an oppor-
-tunity of making for ourselves in different
countries, it is our full belief, that in no part



of Empire is the principle of adhesive inflam-
mation better understood and certainly more
successfully practiced than in our own.

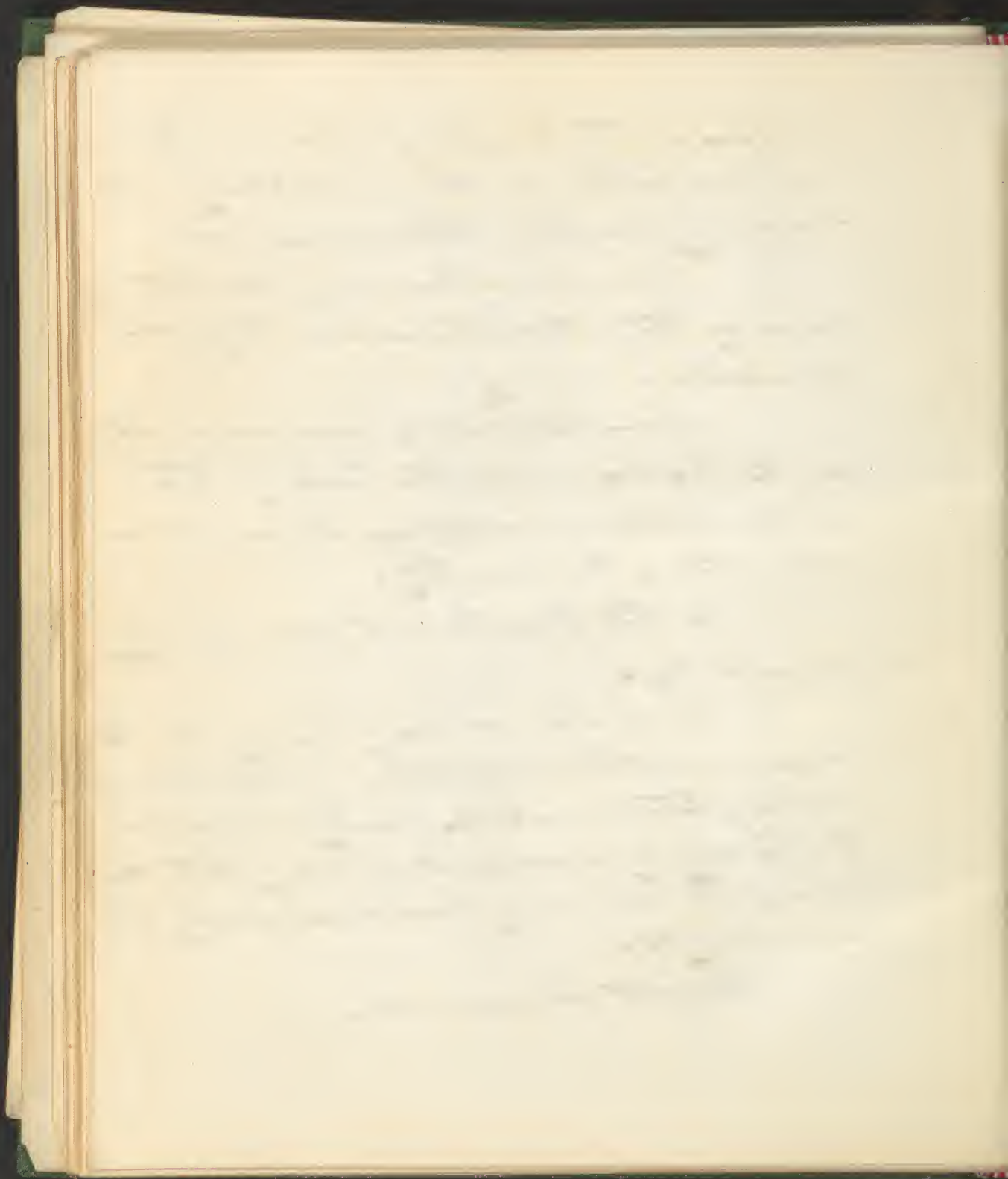
We found where in Egypt that
union by the first intention was truly re-
markable.

Even the lateral incisions for Stone
in the Bladder would often heal by the
first intention, a result we have never
met with in this Country.

In other Operations it was equally
remarkable.

The simple manner of living, and the
pure unobscured constitutions of the common
people of that remarkable Country and perhaps
too the very dry & warm atmosphere of that re-
gion of the world, may have some agency in
favouring it.

The fact however is so.



Relative Anatomy of the Cranium.

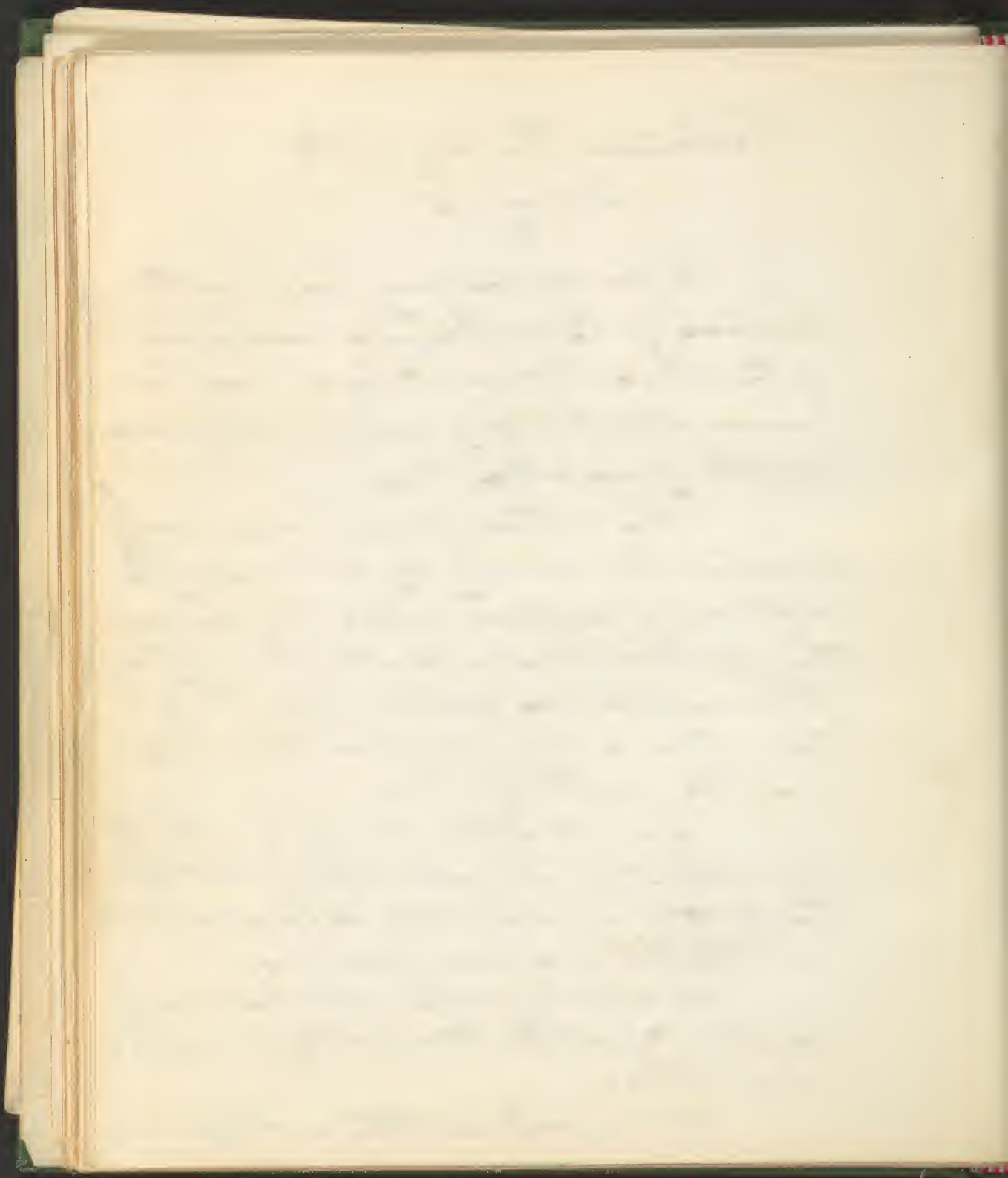
As far as we may be permitted
to speak of the wonderful mechanism
of the Skull it seems to be a wise pro-
vision, that this bony arch is not com-
posed of one entire bone.

The sutures perhaps are wisely
provided then we may say to prevent the
extension of fractures. That they have
this effect I have no doubt. It is true
that we often see fractures pass through
the sutures & it is also true that they
are often arrested by them.

The two tables also which enter into
its constitution are calculated to ward off
the effects of injuries. And I have no doubt
also that this is a wise provision.

A solid bony arch would be much
less fitted to protect the important organs
within.

It is important that a Surgeon



should be aware of the two tables composing
the greater part of the bones of the Cranium,
but also that there is an intermediate ~~can-~~
-cellated structure, our account of Operations
that are performed upon the bones.

Also that the two tables vary in
density, so that there is very little of the ~~can-~~
-cellated structure or diploe on the outer
sides of the Parietal bones, & the squam-
-ous portions of the temporal.

The greater thickness of the Cranium
at one part, ^{than} ~~and~~ another, is important to
be borne in mind by all who perform Op-
erations, as giving confidence to the Op-
erator, and safety to the patient.

From the great thickness of the Os
occipitis, we are seldom called upon to Tre-
-phine this bone.

In two or three instances we have
had occasion to Trephine the Os occipitis.

There is perhaps a general character

Handwritten text, likely a letter or journal entry, covering the majority of the page. The script is cursive and appears to be from the 18th or 19th century. The text is mostly illegible due to fading and blurring.

as to thickness of the Skull in the White
Shale in the natural state, but very great
variations are to be observed.

From the suspicious thickness of the
Cranium of some individuals and the suspicious
thinness of others, it behoves a Surgeon
to be very guarded in the case of the
Tuphins, and I saw in every case, as he
cannot ^{know} the state of the bone in this res-
pect, unless a fracture with depression
and wound exists.

I have seen in the adult where
there was only a single table, & that much
thinner than natural.

Dr Hall's case at Brooklyn in
which there was fracture & depression in
which he supposed an adult, and the Skull
was not thicker than the thumb nail.

My case (Mr. Shipman) from Stone
I took a considerable portion of a parietal
bone for Epilepsy, in which the bone was

[The text on this page is extremely faint and illegible. It appears to be a handwritten letter or document, possibly in cursive script, but the characters are too light to transcribe accurately.]

not as thick as a single table, such was
its atrophied state. It was to all appear-
ances perfectly natural in all other respects.

The pin of the Trephine completely
passed to before the same was set.

See the specimens in my possession.

All surgeons ought to be aware of these
varieties in the thickness of the skull.

It ought never to be taught, and
much less practiced, that until a change in
the sound of the Trephine takes place, we may
go on sawing with safety.

It is well if we can to avoid the
sutures in Trephining as the Sino-Meatus
is more adherent about them than at other
places. But we may if necessary, and ob-
-serving no other land.

It is well to avoid if possible the whole
course of the Sagittal suture, as because it is
situated the longitudinal fibres.

Also about the lower and anterior.

Handwritten text, likely bleed-through from the reverse side of the page. The text is illegible due to blurring and fading.

angle of the parietal bones, as at these points
the trunk of the spinous artery of the dura
mater is to ^{be} ~~made~~ mate with.

At all these places Lawrence & I have
frequently applied the Trephine with perfect
safety. The spinous artery at its trunk we
have ^{frequently} ~~often~~ ^{trough} ~~trough~~ with the trephine. It
will bleed freely, and sometimes I have ar-
rested it with a firm dossil of lint.

In two cases I made with pieces of
bone driven into the longitudinal sinus, which
when removed has given rise to a profuse
hemorrhage. These also have been readily
arrested by small pledgets of lint, with
the flap of scalp over it and the usual
dressings.

The transverse occipital ridge may
also be avoided on account of the transverse
^{or lateral} sinus beneath.

Cases must seldom occur to require
the Trephine in this situation.

I have only made with one that re-
quired two applications of the instrument.

Handwritten text, likely a letter or journal entry, covering the majority of the page. The text is written in cursive and is mostly illegible due to fading and blurring.

During one of the perforations from the great restlessness of the patient, & injured the dura mater but no bad consequences followed.

It ought to be borne in mind by us Surgeons, that the Dura Mater is an integumental pericranium of the Skull, & that from the free communications between it and the pericranium, there is a close connection between them in their diseased relations.

The situation of the Spinosus artery of the Dura Mater at the anterior and inferior angle of the parietal bone, and that it is upon the surface of this membrane, in its whole course, enables us to explain, why the largest extravasations of blood should be met with on the sides of the Head. And that there was one to apply the Trephine when ever and in search of blood, as a cause of compression of the brain.

It is stated by some great Practical Surgeons, that if blood or matter be deposited upon the Dura Mater, the bone without will not bleed when the pericranium is detached.

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

from it. This I believe is an important
practical lesson which I have verified in
my own experience.

=

For a Simple Fracture you are not to Trephine
but use means to prevent inflammation.

If symptoms of effusion comes on then you
must perforate the Skull.

For a Simple fracture and Depression of Bone you
have the best authority for not Trephining, particularly
if there be no symptoms of Compression.

I would be always Trephined, in Simple frac-
ture with Depression with symptoms of Compression.

If no symptoms of Compression exist, treat the
case Antiphlogistically and wait.

In Compound fracture ^{or} with Depression of Bone
I Trephine at once, with or without symptoms of Com-
pression.

For Pus on the Dura Mater & symptoms of com-
pression, I trephine.

If no Matter is found on the Dura Mater we per-
forate it to let it out from beneath.

The same for blood. Both cases we have had reason
to select the proper place to Trephine for Matter.

③ In compound fracture without Depression you are not to
Trephine unless symptoms of Compression exist but treat
antiphlogistically.

appearance of the wound if there be one - colour of the
Bones - tumour of the scalp - separation of the pericranium
- bone does not bleed -

Fungus Scabiei - what it is, and how to be treated -
Potter's practice less dangerous than those of small
extent -

Laceration of membranes and lobe of the substance of
the Brain not necessarily fatal -

Life precarious when the substance of the brain is
discharged -

Others think in cases without Lobe, so long as
consciousness remains -

Depth of the wound & after treatment -

Cranium never is reproduced -

Prognosis of some concerning the opening to
the Brain - Always in soft places remains -

Relative Anatomy of the Eye.

The Eye is composed of Coats & Humors. It also has muscles to move it ⁱⁿ different directions.

The relative situation of these is necessary for the Surgeon to be acquainted with to direct to the proper performance of the various operations which are called for at his Land.

In the Operation for Cataracts he should be well acquainted with the exact positions of a Cataract, that he may avoid injuring any important parts which it is associated with.

The success of this Operation frequently depends upon not injuring the Pisc.

The lens ^{or its capsule being} the seat of Cataracts is so closely associated with the Pisc. that great care is required not to wound it.

In most cases, if it receives the least

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

injury inflammation will be induced in it
and the Pupil will be either closed or be-
come so irregular, that vision will be
more or less injured.

Of the Operation by the Anterior or
Posterior, great care is to be taken that the
Pis is not injured by the needle.

In the anterior operation the Pupil
must always be dilated with Belladonna or
streaming to make room to act with
the needle without endangering the Pis.

Not as much care is required when
the Posterior or Suckling Operation is un-
dertaken. But this even requires care, as
the needle is made to come in front of the
Cataract so that it is visible in the Pupil.

The situation of these parts at once
shows the necessity of great caution in the use
of a needle even in the Posterior Operation.

When the needle is seen in the Pupil,
the Supra of the Lens is ^{to be} prevented by the mouse.

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]

ment of the muscles before any attempt is made
to depress or dislocate it.

As for any of the various operations for
Artificial Pupil, and recent knowledge of the
relations of parts is required.

The position of the Muscles should
be well studied, in the points where they become
attached to the Sclerotic coat,bourne with
in mind.

To accomplish ^{this} they must be studied
in relation to a division of them for the
distortions of the Eyes called Squinting.

The modern Operations ^{for} Strabismus
calls for a division of either the Internal
or External Rectus, to reduce the deformity.

The Superior & inferior Oblique muscles
are now and then involved in the distortions of
this organ & requires to be well understood.

And all parts that have a relation
to Strabismus must be depicted, demonstrated
and studied with their particular objects.

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For several Malignant diseases to which
the Eye Ball is Subject, we are obliged to
extirpate the whole organ and its attach-
ments and relations to the surrounding
parts require to be understood.

In other cases where no malignancy
exists we can Shrink the Ball as it is
termed, to fit it for an Artificial Eye.

The mere circumscription of the
Cornea is not generally enough to accom-
plish this object. An incision ought to be
made a little beyond ^{the} Ciliary Ligaments to
be certain of accomplishing this object
we wish.

A knowledge therefore of the relations
of these parts is necessary.

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Caruncula Lachrymalis

This little body at the inner Canthus of the Eye is believed to be glandular.

It is subject to morbid conditions, and its relation to the Ball of the Eye ought to be understood by a Surgeon.

We are sometimes obliged to extirpate it entire, or remove tumors of it, and repair it.

$$4 \frac{1}{4} = \frac{6}{24}$$

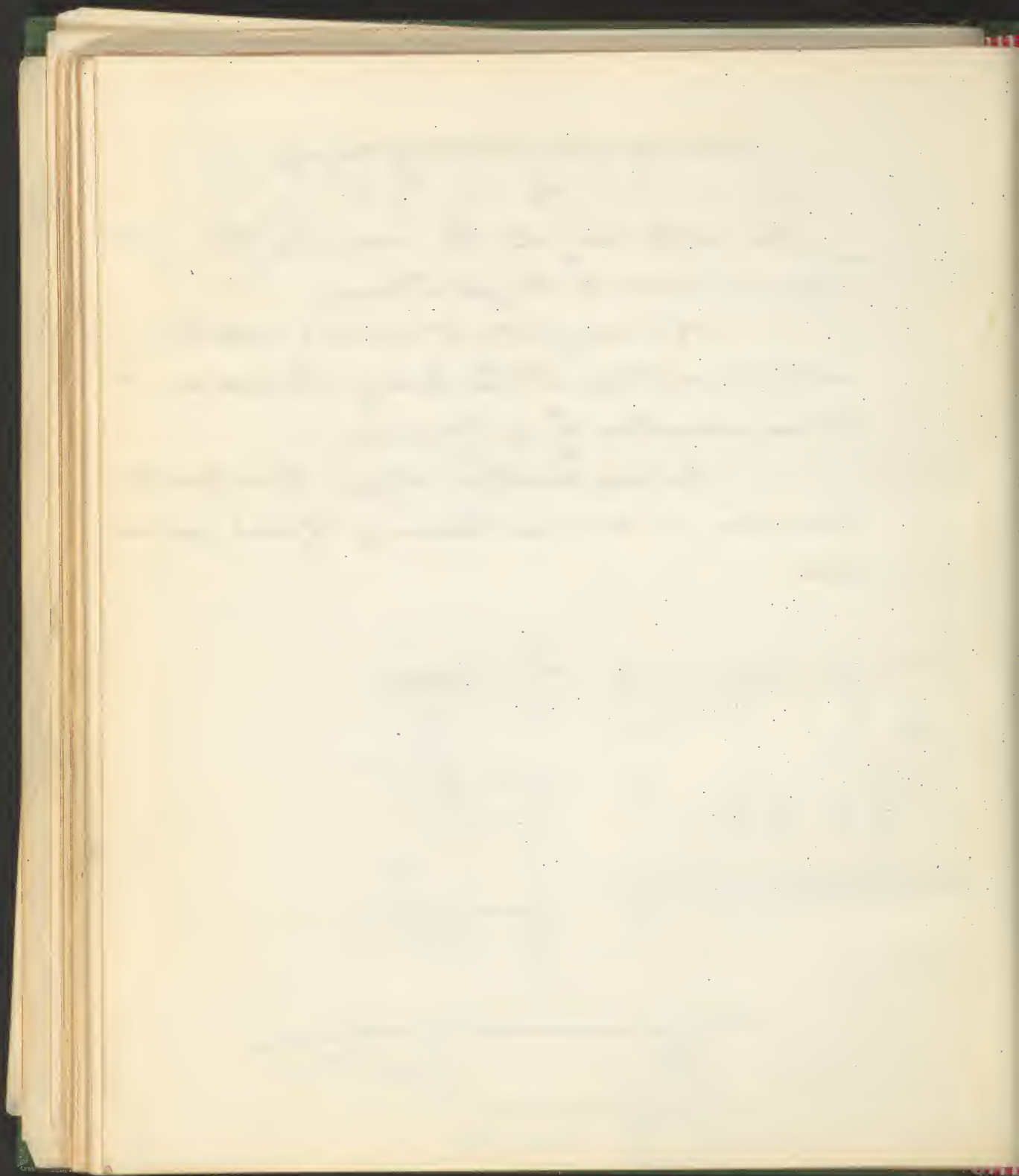
$$6 \frac{1}{3} = \frac{8}{24}$$

$$7 \frac{1}{8} = \frac{3}{24}$$

$$\begin{array}{r} 17 \\ 24 \overline{) 172} \\ \underline{168} \\ 4 \end{array}$$

$$\frac{17}{24} = 1 \frac{1}{24}$$

18 ²⁴/₃₂ answer



Fistulae Lachrymales.

This name conveys an improper idea of the affection intended to be described.

Most of the cases now met with in practice are not fistulous.

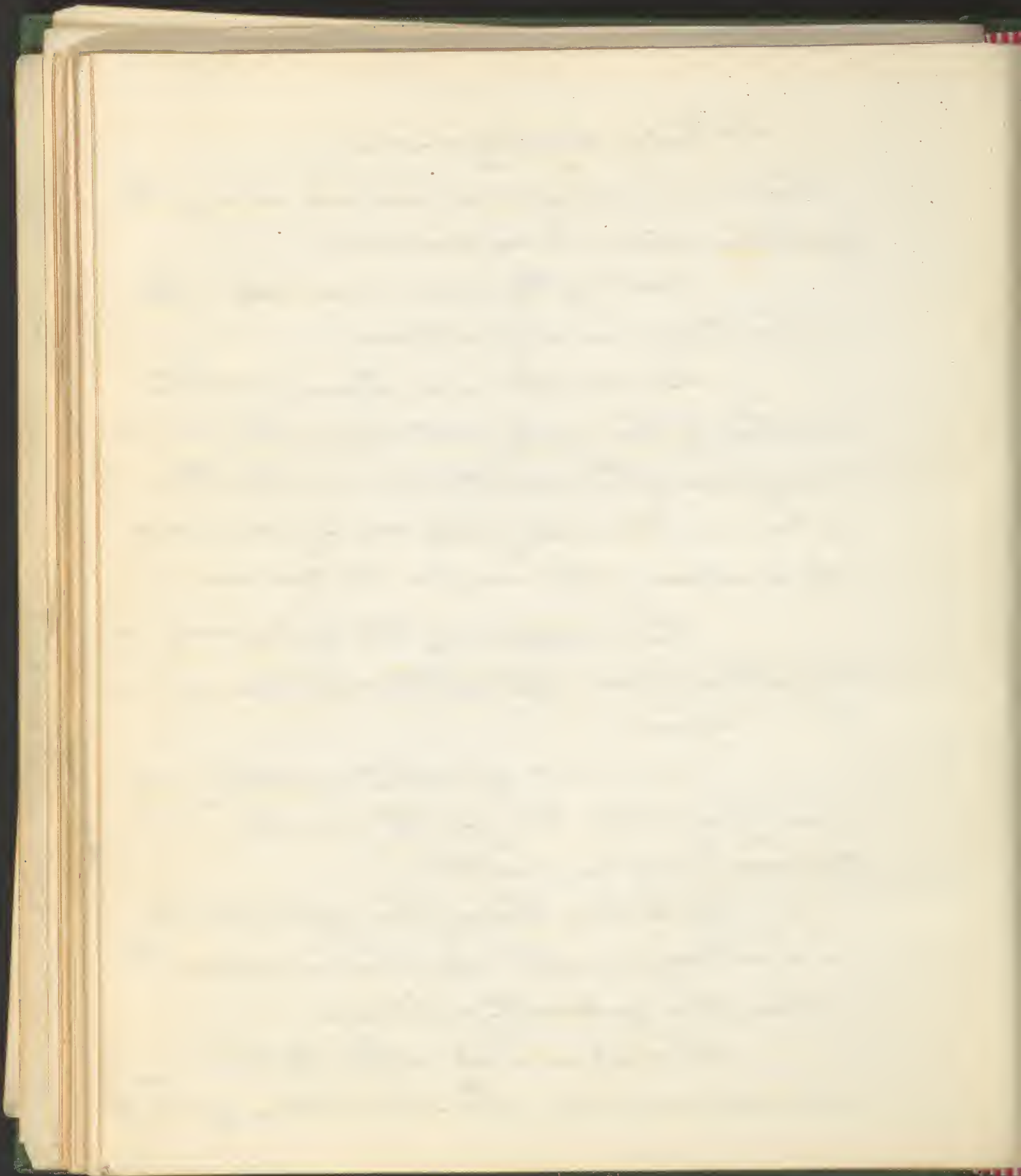
It consists in a tumour at the canthus of the orbit, just below the inner commissure of the eye lid, from a collection of tears in the lachrymal sac, from an obstruction of the ductus ad nasum.

The distension of the lachrymal sac will plainly show its exact situation upon the os Unguis.

When pressed upon the contents of it will regurgitate through the puncta, and the sac will be emptied.

In the third stage of this affection the sac and integuments will often be ulcerated so that it is legitimately a fistula.

The sac is wholly within the tendon of orbicularis musculus, & from the bottom of it the



ductus ad nasum begins, which conveys the tears into the nose.

This duct opens into the nose below the ⁱⁿsuperior turbinate bone.

Important to be recollected, as we can frequently pass a probe up from the nose and remove the obstruction.

When the distension of the Lachrymal sac exists, it is very simple and easy to open it, but in the undistended or normal state few can open it who are not acquainted with its relative situation. The bony margin of the orbit must be felt for, and if just within it we make the incision, the sac will surely be reached.

To pass a probe from the sac also requires a knowledge of relation. Many Practitioners are embarrassed & frequently fail in the attempt to find it by not applying the probe firmly against the superciliary ridge before ^{it is} attempted to be passed into the duct. It will readily succeed in this way, and as readily fail in the other.

1. The first part of the paper is devoted to a
general consideration of the subject.
2. The second part is devoted to a
detailed examination of the various
aspects of the problem.
3. The third part is devoted to a
discussion of the various methods
which have been proposed for
the solution of the problem.
4. The fourth part is devoted to a
comparison of the various methods
and a discussion of their relative
merits and demerits.
5. The fifth part is devoted to a
summary of the results of the
investigation and a discussion of
the conclusions which have been
drawn from the results.

In the complete state of Fistula, or stage of ulceration, the opening by ulceration always takes place too low down for the style to be passed through it to effect a cure. If it is placed in the duct, the motions of the molars will cause it to be forced out. In new incisions must be made above in a line with the duct & edge of ^{the} superciliary margin.

If the opening through the os unguis is permanently closed, as is sometimes the case, and no probe by the most skilful hand can find it, we are compelled to perforate this bone in order to establish a new opening through it, and as passages for the tears into the nose.

This can only be done by a knowledge of the relation of the os unguis to the nasal process of the Superior Maxillary bone.

The probe passed in a perpendicular direction, as for the natural opening will not enable us to accomplish it as it will be resisted in its progress by the nasal process of the superior maxillary bone, and cannot be forced through it.

To perforate the os unguis use the point of the probe and pass it transversely from the outer canthus. When it has

pierces the bone raise it up perpendicularly and
apply it to the supplementary edges, by which the na-
tural direction of the duct will be given to it as
it passes into the nose.

Eye Lids

As these are subject to a variety of diseases and injuries, and Operations to remedy them and repair the damages they may have sustained, should have a constant reference to the normal structure of these parts.

The Punctum in each lid must be borne in mind as an essential element in its functions, not to be disturbed, or encumbered upon. If from any cause, either punctum is obstructed or obliterated, the tears must flow more or less over the under eye, and so give the eye the appearance of more or less weeping.

The Operations to supply defects, or destruction of the lids from Burns, does great honor to Modern Surgery. It is called Blepharoplasty. Good judgment and skill are necessary to plan and execute the Operations.

Deformities of the lids from Burns and

and lacerations from wounds, are the most frequent causes of frightful and distressing deviations of the upper and lower lids.

To such an extent are there contractions of the lids at times, as to prevent the cornea from being covered even with the greatest efforts of the patient. The surface of the cornea becomes dry, inflamed and thickened, and no exposure whatever to the light can be endured.

It is an important step indeed to adopt a plastic operation that shall restore the use of this valuable & beautiful organ.

We have frequently performed these delicate and important operations and had the most signal benefits from them.

The flap may be taken from the cheek or temple. Great care must be taken to leave the connecting isthmus of sufficient depth and width to secure the circulation.

And the circulation will be more likely to pre-
-serve the vitality of the flap & without a certain
amount of circulation we cannot expect the
adhesive process, and when still left the flap
will perish.

The flap also should be rather redundant to its size, as all tension is unfavourable to union by adhesions. 5

All pressure must be carefully guarded against, as it may interrupt the circulation.

A natural anxiety to have every part united has led some non-practising Surgeons to put in too many pins or stitches. A certain number is indispensable. But if too large a number be introduced the inflammation will be augmented to such a degree, as to cause the suppurative inflammation instead of the adhesive.

I have verified this important fact in a multitude of instances in my own experience and the observations I have an opportunity of making in the practices of others.

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Amplasty as applies to the Nose Lips and Cheeks

The ^{first} step taken in these important operations was in the substitution of a new integumental nose for the original & beautiful fabric of nature.

The important feature of the face is frequently cut off by swords and other warlike weapons in times of peace & war. We have known it also several times to be bitten off in brutal conflicts between man & man.

In early times we read that the nose has been bitten off and after some half an hour washed, applied, and that it has grown fast. In all the cases we have seen no restoration of the bitten off part has taken place on the contrary, a permanent disfigurement has been the result.

There are the best cases for the success of amplasty. We have applied it very successfully to these cases in various proportions.

distinction of the nose from *Leas* ^{reminded} *Merica* and *Lupus*, are now and then by *Anaplasty* as applied to the whole member, called *Chiroplasty*.

The integument originally taken by *Talimaotius* was from the arm or forearm. In latter times the skin or portion of integument is turned down from the forehead. There are by far the best noses that are made upon this patching plan. The *believe* *Baynes* of London introduced this improvement into Surgery and it was extensively & successfully carried out by the celebrated *Linton*.

The remainder to *Lama* seems two noses made by the celebrated *Baron Grafton* when in *Peking* for the arm. They were much ^{up} *symmetrical* and beautiful than several we saw made by *Deffenbach* from the forehead.

We also saw *Prof. Dabrowskies* of *St. Petersburg*, make one from the forehead which looked to succeed very well.

3. See several drawings in my Port-folio.

Softening of the Cheek from Scorbuts,
Erysipelas. the violent actions of Mercury on
the Gums, and Cancorous affections of
the Under Lip, spreading from thence to
the Cheek, and invading the corner of the
mouth and upper lip, are the cases in
which our Lenses repeatedly applied anaplasty
in various proportions, with the greatest
benefit. &c.

These forms of Anaplasty are de-
nominated by modern authors, when applied
to the Cheeks.
to the Lips.

Our Lenses seem and greatly remedied
clocking deformities of all these parts, but some-
times the destruction of the sides of the face
is so considerable that it does not admit of
any reparations from the surrounding parts. Then
our only resource is in a silver plate fashion-
ed like the sound side of the face, painted skin
colours and sewn over the defects.

You may fear to say, that if our Lenses

Handwritten text in Arabic script, likely a religious or historical document. The text is written in a cursive style and appears to be a continuous passage.

Handwritten text in Arabic script, continuing the passage from the first block. The script is consistent and legible.

Handwritten text in Arabic script, continuing the passage from the first block. The script is consistent and legible.

Notwithstanding ourselves, we would not permit
the best Nose-Makers in Europe or Amer-
ica, to practise upon us but would in-
finitely prefer the Papian Maché imita-
tions.

We have an opportunity sometimes
in these operations about the lips, cheeks
and jaws, of availing ourselves very advanta-
geously of sliding portions of integument
(glissement) by merely detaching them from
the bone or parts underneath.

In one instance in the person of
Sedges from Chipewyan we removed an
extensive Cancer which had destroyed the
entire under lip & spread into each angle of
the mouth. The incisions extended beyond
the angles of the mouth into the cheeks and swept
around near the margins of the skin, to ex-
clude all the diseased parts. By detaching
the balances of integument from the very margins
of the skin, and extending the separation of in-

The first thing I noticed when I
awoke was a sense of peace and
calm. The room was quiet and
the air was fresh. I felt a sense of
well-being that I had never experienced
before.

I had been told that the
place was beautiful and peaceful, and
now I knew why. The view was
stunning, and the people were
friendly and helpful. I felt like I
had found a new home.

I had been told that the
place was beautiful and peaceful, and
now I knew why. The view was
stunning, and the people were
friendly and helpful. I felt like I
had found a new home.

Experiment to the thyroid Cartilage. L was
readily able to slide the whole up the length
of the chin, so as very satisfactorily to repair
the damages. It succeeded admirably.

$$\begin{array}{r} 1 \\ 17 \\ 2 \\ \hline 34 \end{array}$$

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Relation of the Duct of the Parotid Gland.

Whoever operates upon the Cheek should be fully aware of the course of the Parotid duct across the Masseter muscle, to the point of its termination through the Buccinator muscle & membrane of the mouth.

A line drawn from the lower part of the lobe of the Ear, to the lower margin of an Alar of the nose, will define very accurately the course of this duct.

Another perpendicular line from the external Canthus of the Orbit, will accurately indicate the inner margin of the Masseter, & opening of this duct into the mouth.

All operations performed in this region ought always to have reference to the course and termination of this duct. Otherwise from wounds of its tubules, & perhaps incurable salivary fistulas may be the result.

The situation of the Per Auricular, and course of the principal branches of the Portio dura, or Facial Respiratory Nerve, and a

Nerves of the Face.

^{their} Surgical Relations.

Five Nerves in the Body are more interesting to the Pathologist or Surgeon than the Tri-facial branches of the 5th pair.

The Crude and agonizing diseases of one or more branches of them, denominated Tris-Donalmeaus or Neuralgias, makes them important objects of study.

Not only to find out the changes which are produced in them by this curious disease, but to know their relations with other parts, that we may direct a Surgical Operation if necessary, for its relief or cure.

The trunk of the Ophthalmic branch of Willis ^{after passing through the foramen lacerum and} enters ^{the orbit} close to the roof of the orbit, and passes through the superior foramen, the notch of the nose, the ridge itself & is distributed to the integuments smoothly.

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of the forehead.

The division of this nerve is easily accomplished either just within the bony margin just feeling for the notch as a direction for entering the pointed bistoury. By sweeping the end of the knife close along the roof of the orbit, previously preparing down the back of the eye, the trunk of the nerve will easily be caught by it and divided.

It may also be cut just above the ridge by the same knife, and to young Surgeons, this will be the preferable place as it is ^{entirely} out of any danger.

In both places the numbness upon the forehead in the track of the nerve will infallibly denote that it has been cut.

The second branch of the 5th pair or infra orbital comes out upon the face by the infra orbital foramen.

The exact situation of this in relation to the bony margin of the superior maxillary bone must be carefully learned. The dissection can generally be felt through the soft

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parts from without, to convey a correct idea of the exact situation of the foramen.

As this nerve instantly divides into a number of branches the instant it emerges from the foramen, it is important to divide it at its exit, to secure the full benefit of the operation.

The same sensation of numbness will follow upon the cheek, upper lip and side of the nose, if the trunk is cut, that was experienced on the forehead.

This third branch of the 5th pair on inferior Maxillary makes its exit from the foramen mentale. This foramen is situated about the root of the first bicuspis tooth nearly half way on the body of the bone. If a perpendicular line be drawn from the superior orbital foramen to the base of the lower jaw it will very accurately point out the situation of the mental hole.

This we have often examined, and never found it to fail. When all the teeth are gone this is an excellent guide.

To divide this nerve the bistoury is passed with-
in the mouth - the lip being turned down the
cheek is divided to the extent of half an inch
opposite the root of the first bicuspid tooth -
the knife is then passed flatwise close to the
bone & the cut made from behind forward.

In this way Mr. Leane has been enabled
to readily divide the nerve as it comes out of
the foramen - if it divides a sensation of
numbness will be felt to some distance
about the cheek, chin & lower lip.

To ^{secure} the full divisions of these nerves, I
am in the habit of making several sections
through the same external incisions. The trunk
of the nerve is thereby several times divided,
and perhaps the union of it also may be
somewhat retarded.

These nerves generally unite in from
three to four months, and the disease returns
again with all its former horrors. In a few cases
I have known the operation effect an entire
cure. It always cures until the functions of
sensation returns, thus reappears the enemy.

The Neuralgia of many parts of the body we
can excise a portion of the trunk of a nerve,
and thereby prolong the cure but in the nerves
of the face we cannot attempt this without
in the first place considerably disfiguring
the face, and secondly the shortness of the
trunk forbids it.

The first thing I noticed
when I stepped out of the car
was the smell of the sea.
It was a salty, sweet
smell that I had never
before. The sun was
shining brightly on the
water, and the waves
were crashing against the
rocks. I felt a sense of
peace and tranquility that
I had never experienced
before.

Portio dura or Facial Respiratory.

The situation of this nerve as it comes out at the foramen stylo mastoideum is interesting to us as Surgeons. The trunk here is of some length before it enters the Parotid Gland. This is important to be recollected, as ^{it is} at this point that it has been advised to divide it ⁱⁿ cases of obstinate neuralgic affections of the sides of the face which follow the branches which go off in front of the Parotid.

As this nerve emerges from the Parotid, there is a peculiar conformation of it which is called the Res Disserminis, situated close to the Parotid Duct. Several branches go off from this across the face in different directions.

Since Sir Charles Bell's views ^{were} made public, ascribing to this nerve only the function of motion, very little attention has been given to it as an object of surgical interest. That it is more a nerve of motion than sensation

a) You have but to dissect the nerves of the entire side of the face to be convinced of the intimate and wonderful connection (anastomosis) of the branches of the Portio dura and the second branch of the fifth pair. To look at this dried specimen of a masterly dissection you must inevitably come to the same conclusions.

It is more than I can comprehend that this wonderful Anastomosis of these two Nerves, should not make them have a community of functions, as they interchange such an intimacy in organization.

One thing is very certain, that Anastomosis in the nervous system does not serve the same purposes, that the innervation of arteries does to the vascular system.

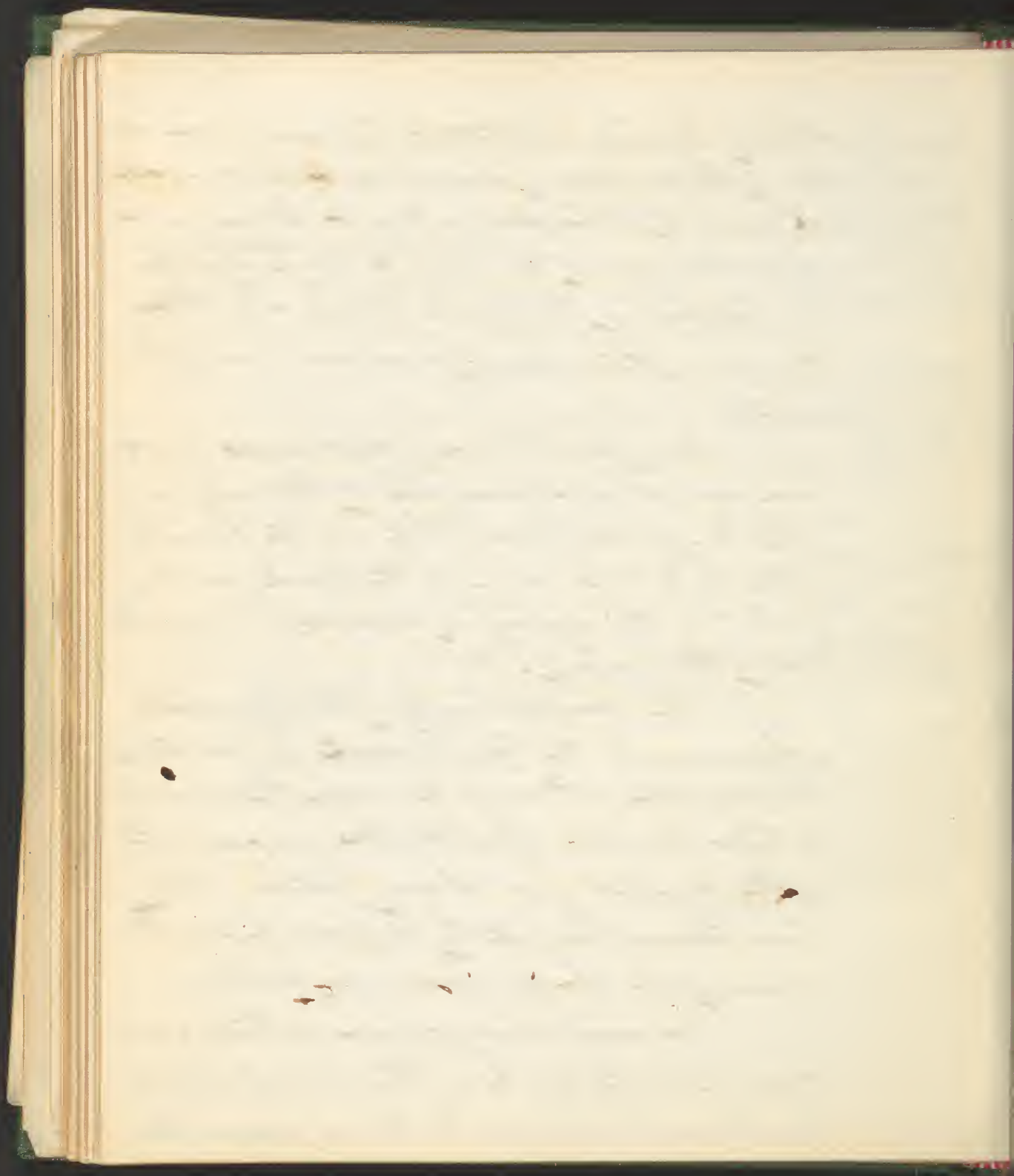
In severe cases of Neuralgia of the trifacial nerves, the branches of the Portio dura and even the trunk itself is involved in the disease. Of this there cannot be a question. I have seen it repeatedly.

I fully believe, but that it has also more on
less of the functions of sensation, I also am well
satisfied of. The observations of Lane made
from divisions of it which ~~at~~ ^{have} taken place
in Estipating the Parotid Gland, and other
tumors in the vicinity, convinces me of this
fact.

Every Practitioner of experience must
have observed in several cases of Neuralgias
of the tri-facial nerves, that all the branches
of the Portia dura, even to the trunk, are in-
volved in this agonizing disease. I am quite
sure of this myself. ☺

The close proximity of the branches
of this nerves to the Parotid duct in front of
the Masseter and across it makes the division
of these branches objectionable, on account
of the formation of a Salivary fistula. They
have however been cut by Surgeons before the
views of Sir Charles were made public.

We would always prefer in these cases
to reach for the trunk as the most effectual
operation. In all cases trunks are preferable.



to branches, and the excision of a portion of the
nerve: at least half an inch of the nerve in
this situation can be removed.

If the relation of this nerve is under-
stood there is no danger in this operation, but
there is difficulty.

An incision about two inches long in
front of the mastoid process & close to it, will
expose the inner edge of the sterno mastoid mus-
cle. - Then the origin of the digastric muscle
will be seen. By continuing the dissection in
front of this, we arrive at the root of this process
by separating the cellular substance with the
handle of the knife & forceps, and just in advance
a little, the nerve will be found. The styloid
process & the root of the mastoid, cannot fail
to direct us to the exit of the nerve. After
the digastric is exposed very little wrong to
be made of a cutting instrument.

The first thing I noticed when I stepped
out of the car was a warm breeze. It was a
pleasant surprise. I had heard that the
weather was terrible, but it was just what I
needed. The sun was shining brightly, and
the birds were singing. It was a beautiful
day. I walked along the path, feeling the
grass under my feet. The flowers were
in full bloom, and the colors were
vibrant. I took a deep breath and
smelled the fresh air. It was so good.
I had never felt so alive before. The
world was so beautiful. I was so lucky.
I had found a place where I belonged.
I was home. I was finally home.

Parotid Glands.

The situation and relations of this Gland are very important to the Surgeon.

It is not enough to know that it is the largest of the salivary glands and is situated in front of the Ear; and that it is an aggregation of small glands which ultimately terminate in one general secretory duct.

This is all very well for an Anatomist but a Surgeon requires more to warrant him in encountering an Operation upon this important and dangerous region. He must know the points it is related with to enable him to proceed with satisfaction to himself and safety to his patient.

Above it is connected simply with the jugum temporale - in front it lies a little over the Masseter muscle - behind it lies over the base of the jaw, and in front it comes forward to the stylo maxillary ligament, which alone sep.

Monday June 2nd

Went to the office at 10:30 AM. Had a meeting with the board of directors. They discussed the new project and the budget. I presented the report on the progress of the work. The board was satisfied with the results. We then discussed the future plans for the company. I will be working on the new project for the next few weeks. I will also be attending to the other tasks that are pending. I will be back in the office on Wednesday.

On the 3rd of June, I went to the bank to deposit the money. I also went to the post office to send some letters. I will be back in the office on Thursday. I will be working on the new project and the other tasks that are pending. I will be back in the office on Friday.

-erates it from the submaxillary gland - below and
in front it lays upon the digastric muscle and
pharynx & external carotid artery - upon the
deep jugular and internal carotid artery - pos-
teriorly it lays over the mastoid process and the
sternomastoid muscle, and deepens upon the
posterior & styloid process -

From these various connections the
Gland has to be separated when its removal is
a Surgical operation -

That it can be removed is now a set-
tled question in Surgery - At all times it is
difficult and dangerous -

It is always best to tie the Internal
or Common Carotid, before attempting its re-
-moval - It can be done all must admit,
but safety to the patient and comfort to the
operator ought to induce every one to do it -

There are several diseases of it which
require the whole Gland to be removed -

Scirrhus one and upon this Gland have
been all doubtless been removed for the Carotid

itself - And even encysted tumors in the body of
the gland have presented a remarkable resemblance
to it, & from pressure the gland has been
almost entirely absorbed.

Enlargements of the Solis Parotidis
have been mistaken for the gland itself. These
bodies are in front of the body of the Parotid in
the course of the Parotid duct. They resemble
in structure and appearance the body of the
gland but are isolated and are without any
secretory duct.

Since the time of Vesalius in 1611, who
was the first among the French to remove by
an operation this gland, American Surgeons
have done a large share in establishing the
propriety and safety of the operation.

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Submaxillary Glands.

This the second in size of the Salivary Glands is situated below the base of the lower jaw and in front of the Parotid - from which it only is separated by the stylo-masillary ligament - It is covered by the platysma myoides and superficial cervical fascia, and a lamina from the deep cervical closely invests it.

This Gland lies upon the mylo-hyoid-muscle - Its excretory duct passes upwards & forward and opens into the mouth by the side of the frenum of the tongue.

It is sometimes affected by Scirrhus lardaceous which degenerates into Carcinomatous ulcerations.

We have removed it in the latter state when nearly the size of the fist.

The facials vein & artery run over the base of the Jaw about the point where this Gland comes in contact with the Parotid.

Lower Jaw

This in the adult is composed of one bone, but in the infant it is made up of two portions united at the chin.

As a whole it is very important to a Surgeon, from its relations, and the accidents and diseases to which it is subject.

It has several muscles which belong to it and influence its movements.

The Genio Hyoides

Digastricus.

Masseter.

Temporales

Pterygoidei { Sternals.

{ Internals.

Other muscles are attached to this bone, but are not its moving powers.

Every part of this bone is concerned in some operation or injury, and ought to be minutely understood by every Surgeon.

The Chin or anterior angle

Base.

Posterior angle

Coronoid process.

Condyloid process.

The peculiarity of the temporo-masillary articulation.

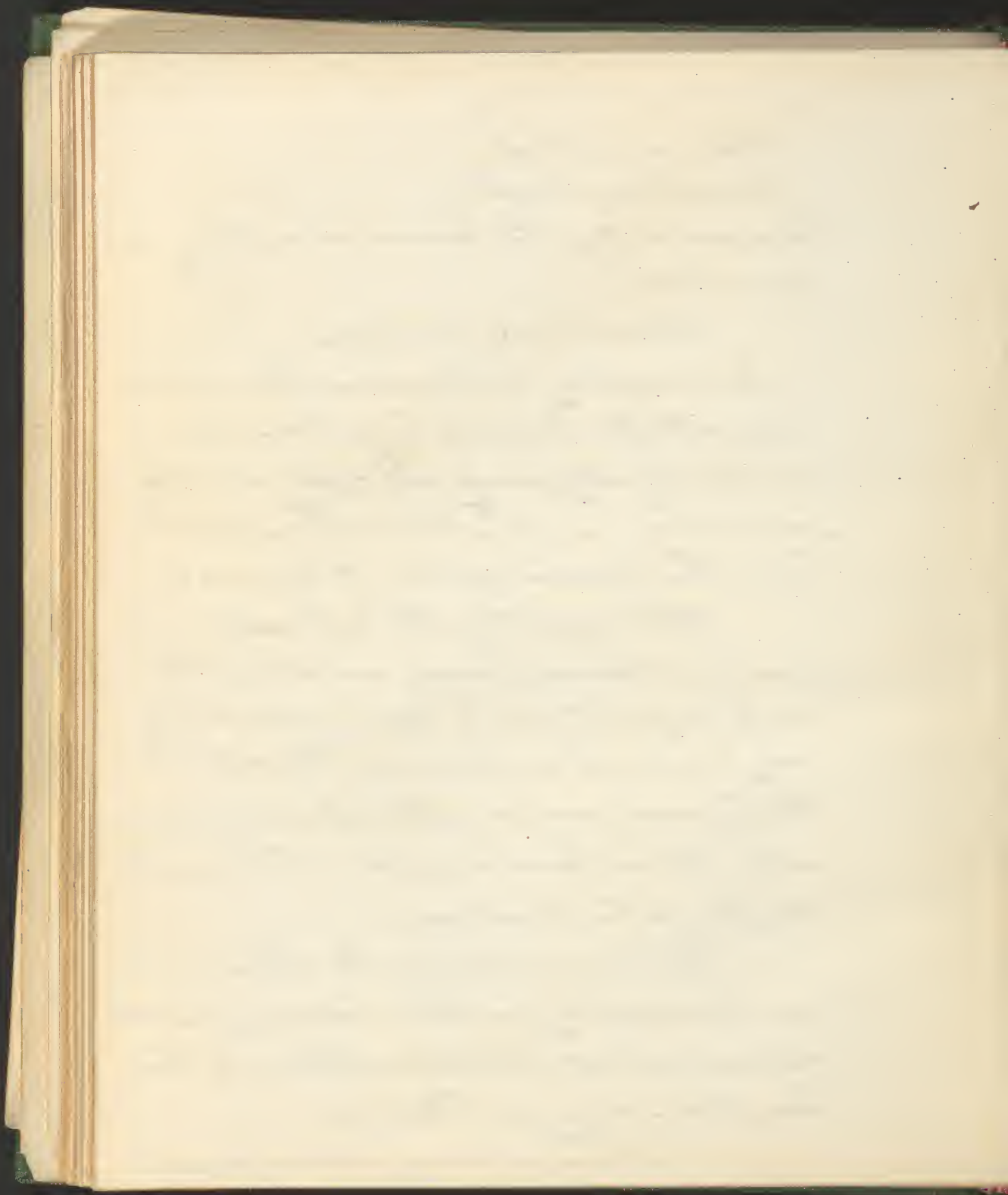
Antearticular Cartilages.

It is necessary to understand this articulation with the temporal bone, to enable us to cut advantageously and safely into the joints when we wish to disarticulate the bones when disease requires it removal.

After separating the temporal muscles from the Coronoid Process we cut into the joint in front, and by keeping close to the condyloid process we open into the joint and thereby avoid wounding the internal maxillary artery, the few sinu-larges from which would complicate the operations.

This bone in part, and the whole may be removed successfully for Osteo-sarcoma, and other diseases, and at both articulations it has been taken away for Necrosis.

The Lower in many instances removed

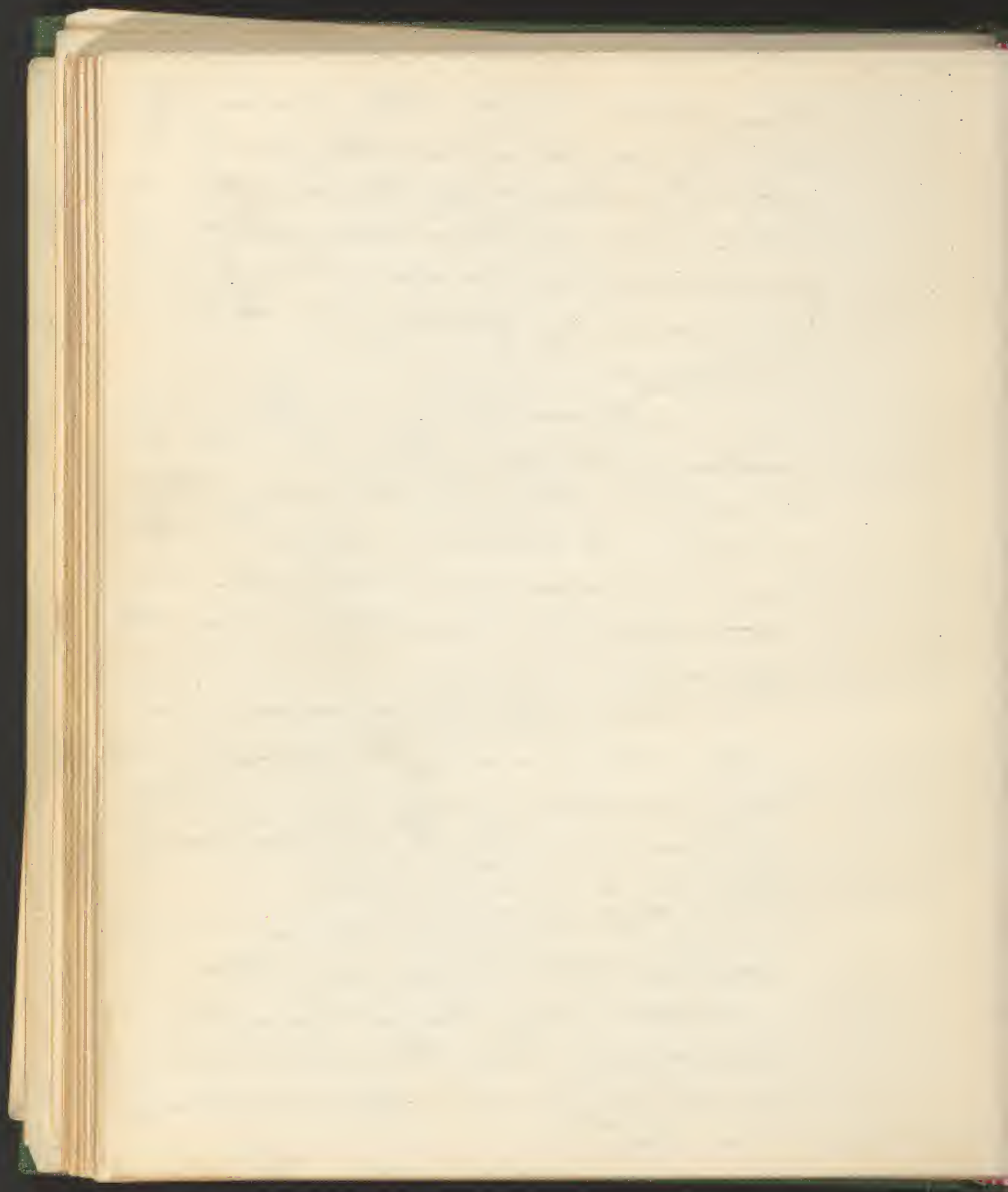


large portions of the jaw osseous - carcinoma. In
one very formidable case these formed the
the tumor being nearly the size of the pa-
tient's head. See Prince's Cases and Specimens
in the Museum - See also a series of other
specimens in my Collection of Morbid Surgical
Pathology -

Dr. Garrod has lost in the same op-
eration for Necrosis of the entire lower jaw taken
it away at both temporomaxillary articu-
lations. The articulating surfaces on both
condyles proper were entirely sound. I saw
the patient when well - there was very little
deformity.

This is the first instance on record
of the entire removal of the lower jaw. It
will be questioned by many Surgeons whether
there was a necessity for this procedure, it
being only a case of Necrosis.

The bone on each side was sound a
little above the posterior angles and some
no doubt will say it would have been
better Surgery to ^{have} left these sound portions as
new starting points for the reproduction of
a new Jaw.







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